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Concrete Repair & Restoration

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Product Descriptions

Conpro Start ..... Strengthen mortar joints and punky concrete surfaces

ECB..... Single component, water based anti-corrosion coating for rebar and metal anchors

Primer..... Long open time water-based bonding primer, pink color turns orange when ready to use

ISR CM..... Economical repair mortar in 23 standard colors and custom color matching for concrete

ISR VO..... Durable crack resistant mortar utilizing ISR (Internal Stress Relief) technology

ISR AG ..... Crack resistant repair mortar with 3/8" aggregate for repairs over 2" deep

Conpro Set..... Fast setting, polymer modified, shaveable for creating sharp angles and architectural elements

Quick Shot ..... Lightweight, quick-setting mortar

Gun Shot LPS..... Versatile low pressure spray and hand applied, fiber-reinforced mortar

Forment..... Economical form & pour/form & pump mortar for large repairs

Injection Grout ..... Micro-grout for repairing hairline to 3/4" cracks. Available in 14 standard colors

Conpro One Shot 2C ..... Two component overlayment for balconies, parking decks. Apply up to 1/2"

Conpro Start

Spray, roller or brush applied, water based consolidant, used to stabilize and strengthen concrete, masonry and stone.

WHERE TO USE

Restore surface integrity and strengthen substrate prior to application of coatings or repair materials.

Performance Characteristics

Anti-carbonation
- Reacts with calcium hydroxide, increases surface density.

Penetrating treatment
- Does not form a surface film or inhibit bond of subsequent materials such as coatings or repair mortars.

Environmentally friendly
- Water based, low odor, non-flammable.

Strengthen gain
- Increases compressive strengths of cement based materials.

Breathability
- Water vapor permeable.

Low viscosity
- Deep penetration.

Single component
- No mixing required.

Surface Preparation

- Remove loose and deteriorated material, laitance, dirt, dust, oil and any surface contaminants that will inhibit proper penetration.
- Follow the specific surface preparation instruction for the Conproco material to be used.
- Protect glass from overspray.

Priming

- Priming is not necessary.

Mixing

- Stir or shake container.

Application

- Always apply a test area to determine suitability of application.
- For roller applications use a 3/8 - 1/2 inch synthetic nap roller depending on texture of substrate.
- For spray applications use a low pressure or airless sprayer.
- Thoroughly saturate the surface to ensure adequate penetration.
- For horizontal applications apply liberally and brush out to eliminate ponded material.
- Additional coats can be applied when the previous treatment is dry-to-touch.

Curing

- No curing procedures are required.
- Allow 12 hours before repair mortar or coating is applied to treated surfaces.

Clean Up

- Clean tools and equipment with water.
- Clean windows with glass cleaner.

Conpro Start

Coverage/Yield

- 80 - 150 ft.^{2}/gal. depending on porosity of treated surface.
- Apply a test sample to determine actual coverage.

Product Handling

Packaging

- 1 and 5 gallon containers

Shelf Life

- 18 months in unopened containers.

Storage

- Protect from freezing.
- Transport and store in cool, clean, dry conditions in unopened containers.
- High temperature will reduce shelf life.

Limitations

- Do not apply unless substrate and ambient temperature can be maintained at a minimum of 40°F for 8 hours. Refer to ACI Cold Weather Application Guidelines.
- Protect glass from overspray. Clean glass immediately with glass cleaner.
- A white film can develop on dense surfaces or surfaces previously treated with water repellents. Clean immediately with acetic or other mild acid. After 24 - 48 hours it will be necessary to use mechanical abrasion to remove film.
- The effectiveness will vary depending upon the porosity and chemical composition of the substrate. A test application should be performed to determine performance on a specific substrate.
- Always apply a test sample on brick to determine any visibly undesirable effects, e.g. white crystalline film.
- Do not allow material to pond.

Health and Safety

- Product is alkaline.
- Do not ingest.
- Avoid contact with eyes.
- Refer to Safety Data Sheet (SDS) for additional information.

First Aid

- In case of skin contact, wash thoroughly with soap and water.
- In case of eye contact, flush immediately with a high volume of water for at least 15 minutes and contact a medical professional.
- For respiratory problems, remove person to fresh air.
- If respiratory difficulty persists, contact a medical professional.

Disposal

- Dispose of material in accordance with local, state and federal regulations.

Technical Data

Physical state and appearance		Slightly clouded liquid	
Base		Aqueous	
Odor		Slight alcohol	
pH		>12	
Actives Type		Inorganic mineral silicate	
Solvent system		Water	
Percent solids by weight		8.35%	
Flash point	ASTM D56	>200°F Seta cc	
Density of liquid coatings	ASTM D1475	8.4 lbs./gal.	
Gain on mortar		**psi**	**% gain**
Compressive strength	ASTM C109		
Prior to treatment		990	
After treatment		1700	71
Gain on old concrete		**psi**	**% gain**
Compressive strength	ASTM C109		
Prior to treatment		3700	
After treatment		3900	8

FOR PROFESSIONAL USE ONLY

Conproco warrants this product for one year from the date of manufacture to be free from manufacturing defects and to meet the technical properties on the current technical data sheet if used as directed within shelf life. User determines suitability of product for use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product, exclusive of labor or cost of labor. January 8, 2016.

NO OTHER WARRANTIES EXPRESSED OR IMPLIED SHALL APPLY, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. CONPROCO CORP SHALL NOT BE LIABLE UPON ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES.

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ECB – Electro-Chemical Barrier

Brush or spray applied, water based, single component, anti-corrosion coating and long open time bonding primer.

WHERE TO USE

Protect reinforcing steel and metal embedded in concrete against corrosion.

Performance Characteristics

Multiple defenses

- Barrier coating. Corrosion inhibitor. Prevent anode transfer.

Breathability

- Water vapor permeable.

Ease of use

- Single component, water based technology.
- Orange color clearly defines application area.

Stable

- Does not produce destructive by-products.

Long open time

- Up to 30 days on steel before covering.
- Up to 5 days on concrete before covering.

Thermal compatibility

- Will not cause delamination due to temperature change.

Ease of application

- Spray apply to increase production.

Ease of clean up

- Clean equipment with water.

Environmentally friendly

- Water based, low odor, non-flammable.

Surface Preparation

Reinforcing Steel

- Mechanically remove all scaling rust from metal.
- Remove concrete around rebar to provide a minimum 3/4 inch clearance.
- Remove concrete along the length of the bar until the exposed bar shows no sign of corrosion activity.

Concrete

- Remove loose and deteriorated material, laitance, dirt, dust, oil and any surface contaminants that will inhibit proper adhesion.

Priming

- *ECB* is a priming treatment.

Mixing

- Stir or mechanically mix using a low speed drill (400 - 600 rpm) until homogeneous.

Application

- Brush or spray apply a uniform 7 mils. wet to all exposed steel.
- For spray applications use a Graco 3500 or equivalent.
- Brush or spray apply a uniform 7 mils. wet to prepared concrete surface when using as a bonding primer.
- In severe environments a 2 coat application on steel is recommended.

Curing

- Allow *ECB* to dry for a minimum of 30 minutes @ 70°F and be dry-to-touch before placing covering material or applying a second coat.

Clean Up

- Clean tools and equipment with water after use.

ECB – Electro-Chemical Barrier

Coverage/Yield

Packaging/Reinforcing Steel

- 1 gal. – 900 ft. of #8 rebar.
- 5 gal. – 4500 ft. of #8 rebar.

Packaging/Concrete

- 1 gal. – 230 $ft.^2$ @ 7 mils.
- 5 gal. – 1150 $ft.^2$ @ 7 mils.

Product Handling

Packaging

- 1 and 5 gallon plastic containers.

Shelf Life

- 18 months in unopened containers.

Storage

- Protect from freezing.
- Transport and store in cool, clean, dry conditions in unopened containers.
- High temperature will reduce shelf life.

Limitations

- Do not apply unless substrate and ambient temperature can be maintained at a minimum of 40°F for 24 hours.
- Cure time at 40°F is approximately 24 hours. ECB must be dry-to-touch prior to placing covering material.
- Repair zone should be cleaned of dirt and dust immediately prior to placement of concrete or repair material.
- Metal to be coated must be free of all scaling rust at the time of application.

Health and Safety

- Avoid contact with eyes.
- Do not ingest.
- Refer to Safety Data Sheet (SDS) for additional information.

First Aid

- In case of eye contact, flush immediately with a high volume of water for at least 15 minutes and contact a medical professional.

Disposal

- Dispose of material in accordance with local, state and federal regulations.

Technical Data

Physical state and appearance		Thick, orange mastic
Base		Aqueous
pH		9.0 - 9.5
Percent solids by weight		58%
Flash point	ASTM D56	>200°F Seta cc
Density of liquid coatings	ASTM D1475	8.4 lbs./gal
Water vapor transmission	ASTM E96	4 perms @ 10 mils
Protection of embedded rebar	NCHRP 278	
Uncoated		Corrosion @ 10-12 cycles
Coated with ECB		No corrosion after 50 cycles
Corrosion of embedded steel reinforcement	ASTM G109	No corrosion after 80 cycles
Resistivity – Wiss, Janney, Elstner procedure		5.3 x 10^7 ohm/cm
Accelerated weathering - QUV	ASTM G154	2000 hours – UV-B cycled with condensation – no effect
Direct tensile strength	ACI 503R	300 psi
Slant shear bond strength	ASTM C882	900 psi
Volatile Organic Compounds – VOC	Actual	54 g/L

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Conpro Primer

Spray, roller or brush applied, long open time, water based bonding primer. Meets requirements of ASTM C882.

WHERE TO USE

Bonding primer for overlays and repair materials, to hardened concrete.

Performance Characteristics

Single component
- No mixing, no waste.

Long open time
- Apply up to 72 hours before placing covering material.

Color trigger
- Pink when applied, turns orange when ready for covering material – about 30 minutes.

Alkali trigger
- Alkalinity of cement causes material to react.

Breathability
- Water vapor permeable.

Non re-emulsifying
- Once cured will not be affected by water.

Environmentally friendly
- Water based, low odor, non-flammable.

Easy to use
- Spray with low pressure or airless sprayer.

Surface Preparation

- Remove loose and deteriorated material, laitance, dirt, dust, oil and any surface contaminants that will inhibit proper penetration.
- Follow the specific surface preparation instruction for the Conproco material to be used.
- When placing fresh concrete expose aggregate of existing substrate a minimum of 1/8 inch (CSP 6). Refer to ICRI Surface Preparation Guide 03732 for information about Concrete Surface Profile (CSP).
- Protect adjacent areas from overspray.

Priming

- Conpro Primer is a priming treatment that is applied in a thin, uniform application.

Mixing

- Stir or shake container

Application

- Spray, roll, or brush Conpro Primer in a thin, uniform application. Do not allow Conpro Primer to form a surface film. It is critical to avoid excessive Conpro Primer thickness as this will result in a cohesive adhesion failure and delamination. On scarified horizontal applications, broom Conpro Primer immediately after spraying to avoid ponding. Conpro Primer is formulated to penetrate into the substrate.
- For roller applications use a 3/8 - 1/2 inch synthetic nap roller depending on texture of substrate.
- For spray applications use a low pressure or airless sprayer.
- Apply to all surfaces to receive covering material including the edges perpendicular to the repair zone.
- The material is pink when applied.
- The material will turn orange when dry – approximately 30 minutes @ 70°F and 50° RH.
- Apply covering material when Conpro Primer is orange.
- Install covering material within 72 hours.
- Re-apply Conpro Primer if more than 72 hours passes without placing covering material.

Curing

- No curing is required.

Clean Up

- Clean tools and equipment with water.

Conpro Primer

Coverage/Yield

- 150 - 200 ft.2/gal. depending on porosity of treated surface.
- Apply a test sample to determine actual coverage.

Product Handling

Packaging

- 1 and 5 gallon containers

Shelf Life

- 18 months in unopened containers.

Storage

- Protect from freezing.
- Transport and store in cool, clean, dry conditions in unopened containers.
- High temperature will reduce shelf life.

Limitations

- Do not apply unless substrate and ambient temperature can be maintained at a minimum of 40°F for 8 hours. Refer to ACI Cold Weather Application Guidelines.
- Do not use *Conpro Primer* in lieu of proper surface preparation. Refer to ICRI Surface Preparation Guidelines for complete information.
- Contact Conproco for information on using *Conpro Primer* for DOT applications.
- Protect adjacent surfaces, *Conpro Primer* is pigmented and will discolor porous surfaces.
- Do not apply to frozen substrates
- Do not apply on painted surfaces.
- Use caution when spraying in windy conditions.

Health and Safety

- Product is alkaline.
- Do not ingest.
- Avoid contact with eyes.
- Refer to Safety Data Sheet (SDS) for additional information.

First Aid

- In case of skin contact, wash thoroughly with soap and water.
- In case of eye contact, flush immediately with a high volume of water for at least 15 minutes and contact a medical professional.
- For respiratory problems, remove person to fresh air.
- If respiratory difficulty persists, contact a medical professional.

Disposal

- Dispose of material in accordance with local, state and federal regulations.

Technical Data

Physical state and appearance		Orange, milky liquid.		
Base		Aqueous		
Polymer		100% acrylic		
pH		>9.0		
Percent solids by weight		31%		
Flash point	ASTM D56	>200°F Seta cc		
Viscosity	ASTM D562	50 KU – paint paddle		
Volatile organic content – VOC	ASTM D3960	1 gm./liter		
Density of liquid coatings	ASTM D1475	8.4 lbs./gal.		
Resistance to chemicals	ASTM D1308	NaOH solution - excellent		
Standards for latex bonding primers	ASTM C1059	Type 11 – exterior use		
Mandrel bend	ASTM C522	No cracking over 1 inch material		
Slant shear bond strength	ASTM C882	1850 psi – air cure		
Heat stability	ASTM C932	Pass – 30 days @ 140°F		
		3 days	**7 Days**	**14 Days**
Tensile bond strength	ASTM C932			
100% cohesive in concrete patch – psi		190		
80% cohesive in concrete patch - psi			410	
80% cohesive in concrete patch – psi				525

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ISR CM

Color matched repair mortar for cast and pre-cast concrete utilizing ISR (Internal Stress Relief) technology. Available in 23 standard colors and custom color matching.

WHERE TO USE

Protective repairs to vertical and overhead surfaces that match the color of the parent concrete.

Performance Characteristics

Sustainable Green Technology

- Contains significant concentrations of both pre-and post-consumer recycled content.

Low Shrinkage

- Maintains integrity of repair, resists cracking.

Thermal Compatibility

- Prevents delamination due to temperature change.

Durable

- Resistant to weathering action, excellent freeze/thaw stability and abrasion resistance.

Long-term Protection

- Resistant to deicing salts, carbo-nation, chloride, and chemical attack.

Dimensionally Stable

- Suitable for large areas.

Extensive color spectrum

- Available in 23 standard colors and custom color matching.

Surface Preparation

- Remove loose and deteriorated material, laitance, dirt, dust, oil and any surface contaminants that will inhibit proper bond.
- Saw cut edges with a diamond blade at a 90° angle to eliminate feather edging. Avoid polishing the edges as this will inhibit bond.
- Avoid bruising or micro cracking during surface preparation. Refer to ICRI Surface Preparation Guide 03732.
- Repair zone must be a minimum of 1 inch deep, of simple geometry, with no complex edge conditions.
- Avoid long narrow repairs; these have a tendency to crack.
- Saturate substrate with clean water, (saturated surface dry/SSD), with no standing water during application.
- Remove concrete from corroded steel and several inches beyond to expose non-corroded steel.
- Provide a 3/4-inch clearance between the concrete and steel.
- Damaged reinforcing steel should be inspected by a qualified engineer and appropriate action taken.

Priming

- Prime the prepared substrate including all edges with a bond coat of ISR CM. Work the bond coat into the substrate to ensure intimate contact and establish bond. ISR CM must be applied while bond coat is wet. If the bond coat dries, remove and reapply.

Embedded Metal and Steel

- Remove all scaling rust from embedded metal and steel. Apply ECB anti-corrosion coating.

Mixing

- Mechanically mix using a low speed drill (400-600 rpm) and mixing paddle or mortar mixer.
- Pour 2 1/2 quarts of potable water into a clean mixing vessel and slowly add all of the powder (4 to 4-1/2:1powder to water ratio).
- Mix continuously for 3 minutes to a uniform, lump-free consistency.
- Add up to 1 cup of additional water, if needed.
- Allow to "breathe" for 1 minute and remix for 1 minute. This will improve workability and extend open time.
- Mix only as much material as can be placed in 15 – 20 minutes.
- Do not overmix, this will entrain excess air.
- Do not retemper, this can affect color.

Application

- At the time of application, surfaces should be saturated surface dry (SSD) but hold no standing water.
- Follow instructions for *Priming*.
- Force the material against the edges of the repair, working toward the center.
- Material may be applied in multiple lifts of not less than 1 inch and no greater than 2 inches.
- Consolidate each lift and allow to stiffen to thumb-print hard before continuing.
- Scratch (screed/open pores) each lift to prepare surface for subsequent lift.
- Repairs 2 inches or greater may be filled with ISR VO or ISR Ag to within 1 inch of surface. Minimum depth of ISR CM is 1 inch.
- Over-build ISR CM final lift by 1/4 inch.
- Shave to final form with trowel edge up to 2 hours after application.
- Do not overwork the finish.
- Finishing techniques and the length of time the material has cured when shaved will have a significant effect on the appearance of the color and degree of texture.

Curing

- Keep repair zone damp for 24 hours. Refer to ACI 308R-01 for detailed curing recommendations. If repair is inaccessible, tape polyethylene over area to retain moisture. Do not allow polyethylene to contact material.
- Protect repair from direct sunlight, wind, rain and frost during curing period.

Clean Up

- Clean tools and equipment with water immediately after use.
- Cured material must be removed mechanically.

ISR CM

Theoretical Yield

Yield per Pail	Repair Depth	Square Feet
0.42 cubic feet	1/2 Inch	10.08
0.42 cubic feet	1 Inch	5.04
0.42 cubic feet	1.5 Inches	3.36
0.42 cubic feet	2 Inches	2.52

Product Handling

Packaging

- 50 lb. plastic pails

Shelf Life

- 18 months when properly stored.

Storage

- Transport and store in cool, clean, dry conditions in unopened containers.
- High temperature or high humidity will reduce shelf life.

Limitations

- Do not apply unless substrate and ambient temperature can be maintained at a minimum of 40°F for 24 hours. Refer to ACI Cold Weather Application Guidelines.
- Cold mixing water and low temperature will retard set. Hot water and high temperature will accelerate set.
- Protect application from precipitation and high wind for at least 8 hours.
- Do not add more water than specified, this will lower strengths, induce shrinkage cracking and alter final color
- Avoid overworking material during placement and finishing - this will affect color and produce surface (map) cracking.
- Do not allow polyethylene or burlene to touch surface while curing as this will cause whitening of the material.

Health and Safety

- Product is alkaline.
- Do not ingest.
- Avoid breathing dust.
- Avoid contact with skin and eyes.
- Refer to Safety Data Sheet (SDS) for additional information.

First Aid

- In case of skin contact, wash thoroughly with soap and water.
- For eye contact, flush immediately with a high volume of water for at least 15 minutes and contact a medical professional.
- For respiratory problems, remove person to fresh air.

Disposal

- Dispose of material in accordance with local, state or federal regulations.

Technical Data

Physical state and appearance		Dry powder with aggregate.	
Base		Portland cement	
pH		>12	
Length change	ASTM C157	<500 µstrains @ 28 days	
Slant shear bond strength – epoxy	ASTM C882	1250 psi	
Short-term bond strength	ICRI 03739*	400 psi	
Freeze/thaw resistance - procedure A	ASTM C666	Weight gain (%) 0. Expansion (%) 0. Durability Factor DF (%) 99.	
Tensile strength – psi	ASTM C307	530 @ 28 days	
		7 days	**28 days**
Compressive strength - psi	ASTM C39	3900	4500

*Data presented applies to non-pigmented base material where noted.

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ISR VO

Durable, crack resistant repair mortar utilizing ISR (Internal Stress Relief) technology with ECB-Tech corrosion protection.

WHERE TO USE

Protective repairs to vertical and overhead concrete.

Performance Characteristics

Sustainable Green Technology

- Contains significant concentrations of both pre-and post-consumer recycled content.

Low Shrinkage

- Maintains integrity of repair, resists cracking.

Thermal Compatibility

- Prevents delamination due to temperature change.

Corrosion Protection

- Protects reinforcing steel in repair zone and suppresses ring anode effect.

Durable

- Resistant to weathering action, excellent freeze/thaw stability and abrasion resistance.

Long-term Protection

- Resistant to deicing salts, carbo-nation, chloride, and chemical attack.

Dimensionally Stable

- Suitable for large areas.

Abrasion Resistant

- Hard, durable surface for long term wear.

Surface Preparation

- Remove loose and deteriorated material, laitance, dirt, dust, oil and any surface contaminants that will inhibit proper bond.
- Saw cut edges with a diamond blade at a 90° angle to eliminate feather edging. Avoid polishing the edges as this will inhibit bond.
- Avoid bruising or micro cracking during surface preparation. Refer to ICRI Surface Preparation Guide 03732.
- Repair zone must be a minimum of 1/2 inch deep, of simple geometry, with no complex edge conditions.
- Avoid long narrow repairs; these have a tendency to crack.
- Saturate substrate with clean water, (saturated surface dry/SSD), with no standing water during Application.
- Remove concrete from corroded steel and several inches beyond to expose non-corroded steel.
- Provide a 3/4-inch clearance between the concrete and steel.
- Damaged reinforcing steel should be inspected by a qualified engineer and appropriate action taken.

Priming

- Prime the prepared substrate including all edges with a bond coat of ISR VO. Work the bond coat into the substrate to ensure intimate contact and establish bond. ISR VO must be applied while bond coat is wet. If the bond coat dries, remove and reapply.

Embedded Metal and Steel

- Remove all scaling rust from embedded metal and steel. Apply ECB anti-corrosion coating.

Mixing

- Must be mechanically mixed using a low speed drill (400-600 rpm) and mixing paddle or mortar mixer.
- Pour 1 gallon of potable water into a clean mixing vessel and slowly add all of the powder.
- Mix continuously for 3 minutes to a uniform, lump-free consistency.
- Add up to 1 cup of additional water, if needed. Proper mix ratio is 4 parts powder to 1 part water.
- Allow to "breathe" for 1 minute and remix for 1 minute. This will improve workability and extend open time
- Do not overmix, this will entrain excess air.

Application

- At the time of application, surfaces should be saturated surface dry (SSD) but hold no standing water.
- Place material continuously to break points.
- Force the material against the edges of the repair, working toward the center.
- Material may be applied in multiple lifts of not less than 1/2 inch and no greater than 2 inches.
- Consolidate each lift and allow to stiffen to thumb-print hard before continuing.
- Scratch (screed/open pores) each lift to prepare surface for subsequent lift.
- Finish with a float or trowel.
- Avoid overworking material during placement and finishing - this will produce surface (map) cracking.

Curing

- Dampen the repair with a fine mist of water for 24 hours or moist cure with wet burlap and polyethylene.
- Protect repair from direct sunlight, wind, rain and frost during curing period.

Clean Up

- Clean tools and equipment with water immediately after use.
- Cured material must be removed mechanically.

ISR VO

Theoretical Yield

Yield Per Pail	Repair Depth	Square Feet
0.42 cubic feet	1/2 Inch	10.08
0.42 cubic feet	1 Inch	5.04
0.42 cubic feet	1.5 Inches	3.36
0.42 cubic feet	2 Inches	2.52

Product Handling

Packaging

- 50 lb. bags

Shelf Life

- 12 months when properly stored.

Storage

- Transport and store in cool, clean, dry conditions in unopened containers.
- High temperature or high humidity will reduce shelf life.

Limitations

- Do not apply unless substrate and ambient temperature can be maintained at a minimum of 40°F for 24 hours. Refer to ACI Cold Weather Application Guidelines.
- Cold mixing water and low temperature will retard set. Hot water and high temperature will accelerate set.
- Protect application from precipitation and high wind for at least 8 hours.
- Do not add more water than specified, this will lower strengths and cause shrinkage cracking.
- Avoid overworking material during placement and finishing - this will produce surface (map) cracking.

Health and Safety

- Product is alkaline.
- Do not ingest.
- Avoid breathing dust.
- Avoid contact with skin and eyes.
- Refer to Safety Data Sheet (SDS) for additional information.

First Aid

- In case of skin contact, wash thoroughly with soap and water.
- For eye contact, flush immediately with a high volume of water for at least 15 minutes and contact a medical professional.
- For respiratory problems, remove person to fresh air.

Disposal

- Dispose of material in accordance with local, state or federal regulations.

Technical Data

Physical state and appearance		Dry powder with aggregate.	
Base		Portland cement	
pH		>12	
Length change	ASTM C157	<500 µstrains @ 28 days	
Restrained shrinkage cracking	ASTM C1581	No cracking after 256 days	
Chloride Ion Penetration	ASTM C1202	1,200 coulombs @ 28 days	
Short-term bond strength	ICRI 03739*	400 psi	
Scaling resistance (Rating 0 – 1)	ASTM C672	Weight loss after 50 cycles (kg/m^2) .04	
Freeze/thaw resistance - procedure A	ASTM C666	Weight gain (%) 0. Expansion (%) 0. Durability Factor DF (%) 99.	
		7 days	**28 days**
Compressive strength - psi	ASTM C39	4390	4400
Splitting tensile strength – psi	ASTM C496/C496M		463
		Chord elastic modulus E, [GPa]	**Tangent elastic modulus [GPa]**
Modulus of elasticity	ASTM C469-14	13.8	13.8

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ISR AG

Durable, crack resistant repair material utilizing ISR (Internal Stress Relief) technology with ECB-Tech corrosion protection.

WHERE TO USE

Pour, pump or hand patch material for parking and plaza decks, balconies and marine structures.

Performance Characteristics

Pumpable sustainable green technology

- Contains significant concentrations of both pre-and post-consumer recycled content.

Low shrinkage

- Maintains integrity of repair, resists cracking.

Thermal compatibility

- Prevents delamination due to temperature change.

ECB-Tech corrosion protection

- Protects reinforcing steel in repair zone and suppresses ring anode effect.

Durable

- Resistant to weathering action, excellent freeze/thaw stability and abrasion resistance.

Low permeability

- Resistant to deicing salts, carbonation, chloride, and chemical attack.

Dimensionally stable

- Ideal for large areas.

Abrasion resistant

- Hard, durable surface for long term wear.

Surface Preparation

- Remove loose and deteriorated material, laitance, dirt, dust, oil and any surface contaminants that will inhibit proper bond.
- Saw cut edges with a diamond blade at a 90° angle to eliminate feather edging. Avoid polishing the edges as this will inhibit bond.
- Avoid bruising or micro cracking during surface preparation. Refer to ICRI Surface Preparation Guide 03732.
- Repair zone must be a minimum of 3/4 inch deep, of simple geometry, with no complex edge conditions.
- Avoid long narrow repairs; these have a tendency to crack.
- Saturate substrate with clean water, (saturated surface dry/SSD), with no standing water during *Application*.
- Remove concrete from corroded steel and several inches beyond to expose non-corroded steel.
- Provide a 3/4-inch clearance between the concrete and steel.
- Damaged reinforcing steel should be inspected by a qualified engineer an appropriate action taken.

Mixing

- Must be mechanically mixed using a mortar mixer.
- Pour 3 quarts of potable water into a clean mixing vessel and slowly add all of the powder.
- Mix continuously for 3 minutes to a uniform, lump-free consistency.
- For trowel applications, do not exceed 3 quarts of water per bag. Proper mix ratio is 6 parts powder to 1 part water.
- Add additional water to increase slump and flowability for form and pour applications. Do not exceed 3.75 quarts of water per 60 lbs. of material. Proper mix ratio is 5 parts powder to 1 part water.
- 3.75 quarts of water will produce an 8-inch slump.
- Allow to "breathe" for 1 minute.
- Do not overmix, this will entrain excess air.

Application

- At the time of application, surfaces should be saturated surface dry (SSD) but hold no standing water.
- Form applications must be consolidated with vibrator.
- Place material continuously to break points.
- Finish with a magnesium float or trowel.
- Avoid overworking material during placement and finishing - this will produce surface (map) cracking.

Curing

- Dampen the repair with a fine mist of water for 24 hours or moist cure with wet burlap and polyethylene.
- Protect repair from direct sunlight, wind, rain and frost during curing period.

Clean Up

- Clean tools and equipment with water immediately after use.
- Cured material must be removed mechanically.

ISR AG

Coverage/Yield

- 0.49 ft^3/60 lb. bag

Product Handling

Packaging

- 60 lb. paper bag.

Shelf Life

- 12 months when properly stored.

Storage

- Transport and store in cool, clean, dry conditions in unopened containers.
- High temperature or high humidity will reduce shelf life.

Limitations

- Do not apply unless substrate and ambient temperature can be maintained at a minimum of 40°F for 24 hours. Refer to ACI Cold Weather Application Guidelines.
- Cold mixing water and low temperature will retard set. Hot water and high temperature will accelerate set.
- Protect application from precipitation and high wind for at least 8 hours.
- Do not add more water than specified, this will lower strengths and cause shrinkage cracking.
- Avoid overworking material during placement and finishing - this will produce surface (map) cracking.

Health and Safety

- Product is alkaline.
- Do not ingest.
- Avoid breathing dust.
- Avoid contact with skin and eyes.
- Refer to Safety Data Sheet (SDS) for additional information.

First Aid

- If swallowed, contact a medical professional immediately. Do not induce vomiting unless directed to do so by a qualified medical professional.
- In case of skin contact, wash thoroughly with soap and water.
- In case of eye contact, flush with a high volume of water for at least 15 minutes.
- For respiratory problems, remove person to fresh air. If difficulty persists, contact a medical professional.

Disposal

- Dispose of material in accordance with local, state and federal regulations.

Technical Data

Physical state and appearance		Dry powder with aggregate.		
Base		Portland cement		
pH		>12		
Aggregate type		Sharp quartz silica with 3/8-inch pea stone		
Slump	ASTM C143	8-9" @ 3.75 quarts of water		
Length change	ASTM C157	<500 µstrains @ 28 days		
Restrained shrinkage cracking	ASTM C1581	No cracking after 256 days		
Chloride Ion Penetration	ASTM C1202	1,218 coulombs @ 28 days		
Short-term bond strength	ICRI 03739*	400 psi		
Scaling resistance (Rating 0-1)	ASTM C672	Weight loss after 50 cycles (kg/m^2) .04		
Freeze/thaw resistance – procedure A	ASTM C666	Weight gain (%) 0. Expansion (%) 0. Durability Factor DF (%) 99.		
		1 day	**7 days**	**28 days**
Compressive strength - psi	ASTM C39	1500	4230	5325
Flexural strength – psi	ASTM C78	382	516	662
Splitting tensile strength – psi	ASTM 496/C496M	182	299	463
Direct tensile strength – psi	CRD C164		293	420
Modulus of elasticity (10^6 psi/GPa)	ASTM C469	1.96/13.5	2.64/18.2	3.07/21.2
Compressive creep (10^6 psi)	ASTM C512		0.64	0.97

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Conpro Set

Trowel applied, single component, polymer modified cementitious repair mortar with ECB-Tech corrosion protection.

WHERE TO USE

Structural and protective repairs to vertical, overhead and horizontal concrete.

Performance Characteristics

Low shrinkage

- Maintains integrity of repair, resists cracking.

Thermal compatibility

- Prevents delamination due to temperature change.

Corrosion protection

- Protects reinforcing steel in repair zone and suppresses ring anode effect.

Durable

- Resistant to weathering action, excellent freeze/thaw stability and abrasion resistance.

Very low permeability

- Resistant to deicing salts, carbonation, chloride, and chemical attack.

Shaveable

- Recreate sharp edges and architectural details.

Single component

- Easy to batch in less than full bag quantities.

Surface Preparation

- Remove loose and deteriorated material, laitance, dirt, dust, oil and any surface contaminants that will inhibit proper bond.
- Saw cut edges with a diamond blade at a 90° angle to eliminate feather edging. Avoid polishing the edges, as this will inhibit bond.
- Avoid bruising or micro cracking during surface preparation. Refer to ICRI Surface Preparation Guide 03732.
- Repair zone must be a minimum of 3/8 inch deep, of simple geometry, with no complex edge conditions.
- Avoid long narrow repairs; these have a greater tendency to crack.
- Apply *Conpro Start* where a consolidant is of benefit (soft, powdery surfaces).
- Saturate substrate with clean water, (saturated surface dry/SSD), with no standing water during *Priming* or *Application*.
- Remove concrete from corroded steel and several inches beyond to expose non-corroded steel.
- Provide a 3/4 inch clearance between the concrete and steel.
- Damaged reinforcing steel should be inspected by a qualified engineer and appropriate action taken.

Priming

Concrete

- Prime the prepared substrate including all edges with a slurry coat of the repair mortar. Work the slurry into the substrate to ensure intimate contact and establish bond. The repair material must be applied while slurry is wet. If the slurry dries, remove and recoat.
- Alternatively, use *Conpro Primer* or *ECB* as a bonding primer.
- Refer to the individual product technical data bulletin for information.

Reinforcing Steel

- Remove all scaling rust from reinforcing steel. Apply *ECB* anti-corrosion coating.

Mixing

- Mechanically mix using a low speed drill (400 - 600 rpm) and mixing paddle or mortar mixer.
- Pour 3-1/2 quarts of potable water into a clean mixing vessel and slowly add all 50 lbs. of material.
- Maintain the same water to *Conpro Set* ratio when mixing less than full 50 lbs. units.
- Proper mix ratio is 4 ¾ parts powder to 1 part water.
- Mix continuously for 3 minutes to a uniform, lump-free, stiff mortar consistency.
- Add up to 1 pint of additional water if needed.
- Allow to "breathe" for 1 minute and remix for 1 minute. This will improve workability and open time.
- Mix only as much material as can be placed in 10 - 15 minutes.
- Do not over mix, as this will entrain excess air.
- Do not re-temper, this will damage the cross-linking of the polymer and cause cracking and loss of bond.

Application

- At the time of application, surfaces should be saturated surface dry (SSD) but hold no standing water.
- Follow instructions for *Priming*.
- Force the material against the edges of the repair, working toward the center.
- Material may be applied in multiple lifts of not less than 3/8 inch and no greater than 2 inches.
- Consolidate each lift and allow to stiffen to thumb-print hard before continuing.
- Scratch (cross-hatch) each lift to prepare surface for subsequent lift.
- Over-build final lift by 1/4 inch and allow to take initial set.
- Shave to final form with trowel edge up to 2 hours after application.
- Finish with a sponge float or trowel.
- Do not overwork the finish.
- For applications over 2 inches add a maximum of 30 lbs. of 3/8 inch aggregate per 50 lb. bag. Aggregate must be non-reactive, low absorption, graded and high density.

Curing

- Dampen the repair with a fine mist of water for 24 hours or moist cure with wet burlap and polyethylene.
- Protect repair from direct sunlight, wind, rain and frost during curing period.

Clean Up

- Clean tools and equipment with water immediately after use. Cured material must be removed mechanically.

Conpro Set

Coverage/Yield

- 0.42 ft.^{3}/50 lbs.
- 0.65 ft.^{3} when extended with 30 lbs. of 3/8 inch aggregate.

Product Handling

Packaging

- 50 lbs. paper bags.
- 10 lbs. and 50 lbs. plastic pails.

Shelf Life

- Bag – 12 months when properly stored.
- Pail – 18 months when properly stored.

Storage

- Transport and store in cool, clean, dry conditions in unopened containers.
- High temperature or high humidity will reduce shelf life.

Limitations

- Do not apply unless substrate and ambient temperature can be maintained at a minimum of 40°F for 24 hours. Refer to ACI Cold Weather Application Guidelines.
- Cold mixing water and low temperature will retard set.
- Hot water and high temperature will accelerate set.
- Protect application from precipitation and high wind for at least 8 hours.
- Do not add more water than specified – this will lower strengths and cause shrinkage cracking.
- Do not re-temper polymer modified materials.
- Avoid overworking material during placement and finishing – this will produce surface (map) cracking.
- Surface whitening can occur when polyethylene is in contact with the material during the first 24 hours of curing.

Health and Safety

- Product is alkaline.
- Do not ingest.
- Avoid breathing dust.
- Avoid contact with skin and eyes.
- Refer to Safety Data Sheet (SDS) for additional information.

First Aid

- In case of skin contact, wash thoroughly with soap and water.
- For eye contact, flush immediately with a high volume of water for at least 15 minutes and contact a medical professional.
- For respiratory problems, remove person to fresh air.

Disposal

- Dispose of material in accordance with local, state and federal regulations.

Technical Data

Physical state and appearance		Fine, gray powder			
Base		Portland cement			
pH	Wet mix	>12			
Water/cement ratio		0.43			
Density	Wet mix	130 lbs./ft.^{3}			
Durometer hardness	ASTM D2240	80 - 85%			
Percent air	Wet mix	5.3%			
Resistance to deicing chemicals under freeze/thaw	ASTM C672	Passed 50 cycles – visual rating 0			
Length change	ASTM C157	500 µstrains @ 28 days			
Modulus of elasticity Extended*	ASTM C469	2.7 x 10^6 3.2 x 10^6			
Slant shear bond strength - latex	ASTM C1042	1605 psi – 14 days			
		1 Day	**7 Days**	**14 Days**	**28 Days**
Compressive strength – psi	ASTM C109	3000	5000		5900
Flexural strength – psi	ASTM C348	590	845	880	930
Tensile strength – psi	ASTM C307	360	550	600	680
Tensile bond strength – psi	ASTM C932		210	250	400
Splitting tensile strength – cylinders – psi	ASTM C496				660

*Extend with 30 lbs. of 3/8 inch aggregate per 50 lbs. of material.

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Quick Shot

Single component, fast setting, high build, low shrinkage, cementitious repair mortar. Add K-88 Admix for polymer modified repair mortar.

WHERE TO USE

Fast repairs to vertical, overhead and horizontal concrete, above or below grade.

Performance Characteristics

Fast setting

- Formulated to set quickly to increase productivity.

High build

- Superior hang for overhead vertical applications.

Low shrinkage

- Maintains integrity of repair, resists cracking.

Thermal compatibility

- Prevents delamination due to temperature change.

Durable

- Resistant to weathering action, excellent freeze/thaw stability and abrasion resistance.

Very low permeability

- Resistant to deicing salts, carbo-nation, chloride, and chemical attack.

Single component

- Easy to batch in less than full bag quantities.

Surface Preparation

- Remove loose and deteriorated material, laitance, dirt, dust, oil and any surface contaminants that will inhibit proper bond.
- Saw cut edges with a diamond blade at a 90° angle to eliminate feather edging. Avoid polishing the edges as this will inhibit bond.
- Avoid bruising or micro cracking during surface preparation. Refer to ICRI Surface Preparation Guide 03732.
- Repair zone must be a minimum of 1/2 inch deep, of simple geometry, with no complex edge conditions.
- Avoid long narrow repairs; these have a tendency to crack.
- Saturate substrate with clean water, (saturated surface dry/SSD), with no standing water during *Priming* or *Application*.
- Remove concrete from corroded steel and several inches beyond to expose non-corroded steel.
- Provide a 3/4 inch clearance between the concrete and steel.
- Damaged reinforcing steel should be inspected by a qualified engineer and appropriate action taken.

Priming

Concrete

- Prime the prepared substrate including all edges with a slurry coat of the repair mortar. Work the slurry into the substrate to ensure intimate contact and establish bond. The repair material must be applied while slurry is wet. If the slurry dries, remove and recoat.
- Alternatively, use Conpro Primer or ECB as a bonding primer. Refer to the individual product technical data bulletin for information.

Reinforcing Steel

- Remove all scaling rust from reinforcing steel.
- Apply *ECB* anti-corrosion coating.

Mixing

- Mix only as much material as can be placed in 10-15 minutes.
- Mechanically mix using a low speed drill (400-600 rpm) and mixing paddle or mortar mixer.
- Pour slightly less than 1 gallon of potable water into a clean mixing vessel and slowly add all 50 lbs. of material.
- Substitute 1 quart of K-88 Admix for water for a polymer modified repair mortar.
- Mix continuously for 3 minutes to a uniform, lump-free consistency.
- Add up to 1 cup of additional water if needed.
- Do not overmix, as this will entrain excess air.
- For smaller batches, proper mix ratio is 4 ¼ parts powder per 1 part water.

Application

- At the time of application, surfaces should be saturated surface dry (SSD) but hold no standing water.
- Follow instructions for Priming.
- Force the material against the edges of the repair, working toward the center.
- Material may be applied in multiple lifts of not less than 3/8 inch and up to 4 inches.
- Consolidate each lift and allow to stiffen to thumb-print hard before continuing.
- Scratch (cross-hatch) each lift to prepare surface for subsequent lift.
- Finish with a sponge float or trowel.
- Do not overwork the finish.
- For horizontal or supported applications over 2 inches, a maximum of 30 lbs. of 3/8 inch aggregate per 50 lb. bag may be added to reduce shrinkage and improve yield. Aggregate must be non-reactive, low absorption, graded and high density.

Curing

- Dampen the repair with a fine mist of water for 24 hours or moist cure with wet burlap and polyethylene.
- Protect repair from direct sunlight, wind, rain and frost during curing period.

Clean Up

- Clean tools and equipment with water immediately after use.
- Cured material must be removed mechanically.

Quick Shot

Coverage/Yield

- 0.44 ft^3/50 lbs.
- 0.67 $ft.^3$ when extended with 30 lbs. of 3/8 inch aggregate.

Product Handling

Packaging

- 50 lbs. multi-wall, poly lined bags.

Shelf Life

- Bag - 12 months when properly stored.

Storage

- Transport and store in cool, clean, dry conditions in unopened containers.
- High temperature or high humidity will reduce shelf life.

Limitations

- Do not apply unless substrate and ambient temperature can be maintained at a minimum of 40°F for 24 hours. Refer to ACI Cold Weather Application Guidelines.
- Cold mixing water and low temperature will retard set. Hot water and high temperature will accelerate set.
- Protect application from precipitation and high wind for at least 8 hours.
- Do not add more water than specified, this will lower strengths and cause shrinkage cracking.
- Avoid overworking material during placement and finishing - this will produce surface (map) cracking.
- Surface whitening can occur when polyethylene is in contact with the material during the first 24 hours of curing.

Health and Safety

- Product is alkaline.
- Do not ingest.
- Avoid breathing dust.
- Avoid contact with skin and eyes.
- Refer to Safety Data Sheet (SDS) for additional information.

First Aid

- In case of skin contact, wash thoroughly with soap and water.
- For eye contact, flush immediately with a high volume of water for at least 15 minutes and contact a medical professional.
- For respiratory problems, remove person to fresh air.

Disposal

- Dispose of material in accordance with local, state and federal regulations.

Technical Data

Physical state and appearance		Fine, gray powder				
Base		Portland cement				
Water/cement ratio		0.45				
Vicat @ 73ºF under lab conditions		Initial – 9-15 minutes Final – 16-25 minutes				
			4 Hrs.	**1 Day**	**7 Days**	**28 Days**
Compressive strength – psi	ASTM C109	Quick Shot	700	2500	3100	5400
	ASTM C39	Quick Shot extended*	500	2100	3100	4000
	ASTM C109	K-88 Admix modified**	400	2500	3900	5300
	ASTM C39	K-88 Admix extended ***	300	1700	2900	3700
Tensile strength – psi	ASTM C307	Quick Shot			300	500
	ASTM C307	K-88 Admix modified**			300	700
Flexural strength - psi	ASTM C348	Quick Shot			600	900

* Extended with 30 lbs. of 3/8 inch aggregate per bag. ** Modified with 1 quart of K-88 Admix per bag. *** Both aggregate and K-88 Admix added per bag.

FOR PROFESSIONAL USE ONLY

Conproco warrants this product for one year from the date of manufacture to be free from manufacturing defects and to meet the technical properties on the current technical data sheet if used as directed within shelf life. User determines suitability of product for use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product, exclusive of labor or cost of labor. June 25, 2020.

NO OTHER WARRANTIES EXPRESSED OR IMPLIED SHALL APPLY, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. CONPROCO CORP SHALL NOT BE LIABLE UPON ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES.

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Gun Shot LPS

Low pressure, wet process spray applied, fiber reinforced, silica fume enhanced, repair mortar with ECB-Tech corrosion protection.

WHERE TO USE

High production vertical and overhead concrete repairs. Wet process minimizes dust and rebound. Spray or trowel.

Performance Characteristics

Low shrinkage
- Maintains integrity of repair, resists cracking.

Thermal compatibility
- Prevents delamination due to temperature change.

Corrosion protection
- Protects reinforcing steel in repair zone and suppresses ring anode effect.

Durable
- Resistant to weathering action, excellent freeze/thaw stability and abrasion resistance.

Very low permeability
- Resistant to deicing salts, carbonation, chloride, and chemical attack.

High build
- Place up to 2 inch lifts without rebound.

Economical
- Improves productivity.

Consistent results
- Excellent consolidation around reinforcing steel.

High early strength
- Minimize out-of-service time.

Surface Preparation

- Remove loose and deteriorated material, laitance, dirt, dust, oil and any surface contaminants that will inhibit proper bond.
- Saw cut edges with a diamond blade at a 90° angle to eliminate feather edging. Avoid polishing the edges as this will inhibit bond.
- Avoid bruising or micro cracking during surface preparation. Refer to ICRI Surface Preparation Guide 03732.
- Repair zone must be a minimum of 1/4 inch deep, of simple geometry, with no complex edge conditions.
- Avoid long narrow repairs; these have a tendency to crack.
- Apply Conpro Start where a consolidant is of benefit.
- Saturate substrate with clean water, (saturated surface dry/SSD), with no standing water during *Priming* or *Application*.
- Remove concrete from corroded steel and several inches beyond to expose non-corroded steel.
- Provide a 3/4 inch clearance between the concrete and steel.
- Damaged reinforcing steel should be inspected by a qualified engineer and appropriate action taken.

Priming

Concrete
- Apply Conpro Primer , or ECB as a bonding primer to all exposed surfaces. Refer to the individual product technical data bulletin for information.

Reinforcing Steel
- Remove all scaling rust from reinforcing steel.
- Apply ECB anti-corrosion coating.

Mixing

- Mechanically mix using a low speed drill (400-600 rpm) and mixing paddle or mortar mixer.
- Pour 2-1/4 quarts of potable water into a clean mixing vessel and slowly add all of the powder.
- Mix continuously for 3 minutes to a uniform, lump-free consistency.
- Add up to 1 pint of additional water, if needed.
- Allow to "breathe" for 1 minute and remix for 1 minute. This will improve workability and open time.
- Do not overmix, as this will entrain excess air.
- Do not re-temper.

Application

- At the time of application, surfaces should be saturated surface dry (SSD) but hold no standing water.
- Follow instructions for Priming.

Spray Application
- Material should be applied by an experienced nozzle man using a rotor/stator or peristaltic pump.
- Follow ACI 506R,for recommendations for wet process shotcrete.
- Material may be applied in multiple lifts of not less than 3/8 inch and no greater than 2 inches.
- Allow material to stiffen to thumb-print hard before continuing.
- Scratch (cross-hatch) each lift to prepare surface for subsequent lift.
- Strike off with straight edge to a uniform plane, close with a trowel or sponge float.

Trowel Application
- Force the material against the edges of the repair, working toward the center.
- Material may be applied in multiple lifts of not less than 3/8 inch and no greater than 2 inches.
- Consolidate each lift and allow to stiffen to thumb-print hard before continuing.
- Scratch (cross-hatch) each lift to prepare surface for subsequent lift.
- Finish with a sponge float or trowel.
- Do not overwork the finish.

Curing

- Dampen the repair with a fine mist of water for 24 hours or moist cure with wet burlap and polyethylene. Alternatively, apply ProMasonry Cure & Seal.
- Protect repair from direct sunlight, wind, rain and frost during curing period.

Clean Up

- Clean tools and equipment with water immediately after use.
- Cured material must be removed mechanically.

Gun Shot LPS

Coverage/Yield

- 0.41 ft^3/50 lbs.

Product Handling

Packaging

- 50 lb paper bags.

Shelf Life

- 12 months when properly stored.

Storage

- Transport and store in cool, clean, dry conditions in unopened containers.
- High temperature or high humidity will reduce shelf life.

Limitations

- Do not apply unless substrate and ambient temperature can be maintained at a minimum of 40°F for 24 hours. Refer to ACI Cold Weather Application Guidelines.
- Cold mixing water and low temperature will retard set. Hot water and high temperature will accelerate set.
- Protect application from precipitation and high wind for at least 8 hours.
- Do not add more water than specified, this will lower strengths and cause shrinkage cracking.
- Avoid overworking material during placement and finishing - this will produce surface (map) cracking.

Health and Safety

- Product is alkaline.
- Do not ingest.
- Avoid breathing dust.
- Avoid contact with skin and eyes.
- Refer to Safety Data Sheet (SDS) for additional information.

First Aid

- In case of skin contact, wash thoroughly with soap and water.
- In case of eye contact, flush immediately with a high volume of water for at least 15 minutes and contact a medical professional.
- For respiratory problems, remove person to fresh air.

Disposal

- Dispose of material in accordance with local, state and federal regulations.

Technical Data

Physical state and appearance		Fine, gray powder with glass fibers		
Base		Portland cement with silica fume		
pH		>12		
Density	Hardened	135 lbs./$ft.^3$		
Setting time by vicat needle	ASTM C191	Initial 30 minutes – Final 60 minutes		
Percent air – pressure method	ASTM C231	3 - 5%		
Resistance to deicing chemicals under freeze/thaw	ASTM C672	50 cycles – no effect		
Slough	ACI 506 R90	None		
Rebound	Vertical	None		
		7 days	**14 Days**	**28 days**
Compressive strength - psi	ASTM C109	7275	7350	7400

Typical performance data representing material vertically applied and cured in field under varying temperatures.
Test performed at 2-1/4 quarts of water per bag.

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Forment®

Pump/pour, shrinkage compensated, Portland cement repair mortar, with ECB-Tech corrosion protection.

WHERE TO USE

Formed structural and protective repairs to vertical, overhead and horizontal concrete from 1 - 6 inches deep.

Performance Characteristics

Shrinkage compensated

- Maintains integrity of repair, resists cracking.

Thermal Compatibility

- Prevents delamination due to temperature change.

Corrosion Protection

- Protects reinforcing steel in repair zone and suppresses ring anode effect.

Durable

- Resistant to weathering action, excellent freeze/thaw stability and abrasion resistance.

Very Low Permeability

- Resistant to deicing salts, carbonation, chloride, and chemical attack.

Highly flowable

- Excellent consolidation around reinforcing steel.

Economical

- Fast placement of large repairs, improves productivity.

Two component

- Consistent batching and flowability.

Surface Preparation

- Remove loose and deteriorated material, laitance, dirt, dust, oil and any surface contaminants that will inhibit proper bond.
- Saw cut edges with a diamond blade at a 90° angle to eliminate feather edging. Avoid polishing the edges as this will inhibit bond.
- Avoid bruising or micro cracking during surface preparation. Refer to ICRI Surface Preparation Guide 03732.
- Apply Conpro Start where a consolidant is of benefit.
- Repair zone must be an average of 1 inch deep, square or rectangular shape.
- Remove concrete from corroded steel and several inches beyond to expose non-corroded steel.
- Provide a 3/4 inch clearance between the concrete and steel.
- Damaged reinforcing steel should b inspected by a qualified engineer and appropriate action taken.

Priming

Concrete

- Several hours prior to placing *Forment*, fill the formwork with clean water. Immediately prior to placement completely drain the water and seal the ports.

Reinforcing Steel

- Remove all scaling rust from reinforcing steel.
- Apply *ECB* anti-corrosion coating.

Mixing

- Mechanically mix using a low speed drill (400-600 rpm) and mixing paddle or mortar mixer.
- Pour *Forment* admix into a clean mixing vessel and slowly add all of the powder.
- Mix continuously for 3 minutes to a uniform, lump-free consistency.
- Do not overmix, as this will entrain excess air.

Application

- Formwork must be tight at all joints to prevent leaks and loss of water and material.
- Pre-treat forms with a release agent.
- Locate vent holes at bottom of forms to allow pre-soaking water to drain and at top to allow air to escape during placement. Refer to ACI 347-01, Guide to Formwork for Concrete.
- Fill forms with clean water several hours prior to placement.
- Drain forms immediately prior to placement.
- Fill forms with a continuous feed. Do not interrupt filling once started, as this will create voids. Refer to ACI 304.2R-96, Placing Concrete by Pumping Methods.
- Consolidate material by tapping forms lightly with a 3 lb. hammer.
- *Forment* will remain fluid for approximately 30 minutes at 70°F, 50% RH.
- Strip forms after 48 hours.
- Extend material to a maximum of 30 lbs. of 3/8 inch aggregate per 50 lbs. of *Forment*. Aggregate must be non-reactive, low absorption, graded and high density.

Curing

- Dampen the repair with a fine mist of water for 24 hours or moist cure with wet burlap and polyethylene. Alternatively, apply ProMasonry Cure & Seal.
- Protect repair from direct sunlight, wind, rain and frost during curing period.

Clean Up

- Clean tools and equipment with water immediately after use. Cured material must be removed mechanically.

Forment®

Coverage/Yield

- 0.41 ft³/50 lbs.
- 0.65 ft.³ when extended with 30 lbs. of 3/8 inch aggregate.

Product Handling

Packaging

- 50 lbs. paper bags; and 1 gallon Forment admix.

Shelf Life

- 12 months when properly stored.

Storage

- Transport and store in cool, clean, dry conditions in unopened containers.
- High temperature or high humidity will reduce shelf life.
- Protect admix from freezing.

Limitations

- Do not apply unless substrate and ambient temperature can be maintained at a minimum of 40°F for 24 hours. Refer to ACI Cold Weather Application Guidelines.
- Do not add more liquid than specified.
- Do not add water.
- Begin curing procedures as soon as forms are stripped.
- Material should not sit in mixer, pump or lines for more than 5 minutes without recycling.
- Do not use *Conpro Primer* as a bonding primer with *Forment*.

Health and Safety

- Product is alkaline.
- Do not ingest.
- Avoid breathing dust.
- Avoid contact with skin and eyes.
- Refer to Safety Data Sheet (SDS) for additional information.

First Aid

- In case of skin contact, wash thoroughly with soap and water.
- In case of eye contact, flush immediately with a high volume of water for at least 15 minutes and contact a medical professional.
- For respiratory problems, remove person to fresh air.

Disposal

- Dispose of material in accordance with local, state and federal regulations.

Technical Data

Physical state and appearance		Fine, gray powder and water based admix		
Base		Portland cement and clear liquid		
pH	Wet mix	>12		
Aggregate type		Sharp quartz silica		
Liquid/cement ratio		0.45		
Density	Hardened	140 lbs./ft³		
Resistance to deicing chemicals under freeze/thaw	ASTM C672	50 cycles – no effect		
Length change	ASTM C157	<500 µstrains @ 28 days		
Extended*		<300 µstrains @ 28 days		
Modulus of elasticity	ASTM C469	4.1 x 10⁶		
Extended*		3.9 x 10⁶		
		1 Day	**7 Days**	**28 Days**
Compressive strength – psi	ASTM C109	1250	5700	6150
Extended*				5975
Splitting tensile strength –cylinders – psi				710
Extended*				675

***Extended with 30lbs of 3/8 inch aggregate per 50 lbs. material**

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Injection Grout

Cementitious crack injection grout/adhesive for the repair of hairline to 3/4 inch cracks in masonry and concrete.

WHERE TO USE

Repair and reconstruct brownstone, sandstone, limestone, cast stone, concrete, marble, granite, terracotta and brick.

Performance Characteristics

Low shrinkage
- Maintains integrity of repair, resists cracking.

Thermal compatibility
- Prevents delamination due to temperature change.

Durable
- Resistant to weathering action, excellent freeze/thaw stability and abrasion resistance.

Low Viscosity
- Excellent flow into cracks and voids.

Breathability
- Will not cause damage to structure by restricting moisture vapor flow.

Single Component
- Easy to batch in less than full pail quantities.

Surface Preparation

- Remove loose and deteriorated material, laitance, dirt, dust, oil and any surface contaminants that will inhibit proper bond.
- It is recommended to use air or water to remove unseen debris from the crack interior prior to injection.
- Test all cracks and voids for proper flow prior to injection. If potable water will not flow into the crack, the injection grout will not be successful either.
- Surface temperature and ambient temperature should be greater than 40°F and less than 90°F.

Mixing

- Mechanically mix using a low speed drill (400-600 rpm) and mixing paddle or mortar mixer.
- Pour 5.5 – 6.5 quarts of potable water into a clean mixing vessel and slowly add all of the powder. Use a 3:1 powder to water ratio for small batches.
- If using as an adhesive, use a mix ratio of 4:1 – 5:1 depending on preference of the installer.
- Mix only as much material as can be placed in 15 – 20 minutes.
- Do not overmix, as this will entrain excess air.

Application

- Drill a series of injection ports directly into the center of the crack at a downward (approximately 45°) angle to the substrate. Determine the spacing of the ports by first drilling a single port and filling it with water. This will provide a visual reference as to the space required between each port.
- After drilling all ports, clean debris from the crack with both compressed air and water.
- To prevent seepage of grout between ports, seal with a non-staining, easy to remove clay, sealant or caulk.
- Begin by injecting the lowest port in the crack and work upwards. Move to the next higher port when the grout is visible at that port or when the crack will no longer accept additional material.
- For cracks more than 3/4" wide place foam backer rod into crack and proceed as described above. Once the grout has hardened, remove backer rod and fill remaining depth with ISR-CM, Matrix or Conpro Set repair mortar.

When using injection grout to fill behind a delaminated substrate

- Determine the spacing required as discussed above. Once this has been determined, lay out a grid of ports spaced equidistant in a vertical and horizontal plane.
- Inject grout into the lowest line of ports and continue until it flows freely from this port and other ports at the same level.
- Seal ports using a non-staining clay, sealant or caulk and proceed to the next highest vertical line of ports.
- Repeat the process until each port will no longer accept additional material.
- Clean up overflow and seepage immediately with clean water to prevent staining.

When using as an adhesive to reconstruct broken masonry elements

- Before mixing grout, fit broken pieces together and determine if clamps and/or wedges are needed to secure pieces while they cure. Use dowels or reinforcing pins as determined by an engineer.
- Saturate interface with water where grout will be applied, while surface is still damp, apply a thin coat (1/16") to both sides of the entire interface.
- Press and hold pieces together. Wipe excess from face with a sponge and clean water.
- Do not disturb the repair for 24 hours.

Equipment

- Injection can be achieved by using injection syringes, modified bulk guns, or low pressure grout pumps (less than 30 psi).
- **Note:** Strain grout with a fine screen or sieve prior to syringe application.

Curing

- 24 hours under normal circumstances.

Clean Up

- Clean tools and equipment with water immediately after use.
- Cured material must be removed mechanically.

Injection Grout

Coverage/Yield

- 0.41 ft^3/30 lb pail.

Product Handling

Packaging

- 30 lb plastic pails.

Shelf Life

- 18 months when properly stored.

Storage

- Transport and store in cool, clean, dry conditions in unopened containers.
- High temperature or high humidity will reduce shelf life.

First Aid

- If swallowed, contact a medical professional immediately.
- Do not induce vomiting unless directed to do so by a qualified medical professional.
- In case of skin contact, wash thoroughly with soap and water.
- In case of eye contact, flush with a high volume of water for at least 15 minutes.
- For respiratory problems, remove person to fresh air. If difficulty persists, contact a medical professional.

Disposal

- Dispose of material in accordance with local, state and federal regulations.

Technical Data

Physical state and appearance		Gray powder	
Viscosity		65 – 75 KU immediate lab	
Specific gravity – wet		1.8	
Volume ratio		1 part water/3 parts powder	
Weight ratio		1 lb. water/2.3 lbs. powder	
		7 Days	**28 Days**
Compressive strength	ASTM C109	≥ 2800 psi	≥ 3800 psi
Tensile strength	ASTM C348		≥ 475 psi

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Conpro One Shot 2C

Trowel or pump applied, two component, polymer modified, Portland cement material for horizontal applications up to 1/2 inch.

WHERE TO USE

Resurface balconies, parking decks, industrial floors, loading docks and ramps.

Performance Characteristics

Low shrinkage

- Maintains integrity of repair, resists cracking.

Thermal compatibility

- Prevents delamination due to temperature change.

Durable

- Resistant to weathering action, excellent freeze/thaw stability and abrasion resistance.

Very low permeability

- Resistant to deicing salts, carbonation, chloride, and chemical attack.

Dimensionally stable

- Ideal for large areas.

Abrasion resistant

- Hard, durable surface for long term wear.

High early strength

- Open to foot traffic in 24 hours, pneumatic tire in 72 hours.

Surface Preparation

- Remove loose and deteriorated material, laitance, dirt, dust, oil and any surface contaminants that will inhibit proper bond.
- Saw cut edges with a diamond blade at a 90° angle to eliminate feather edging. Avoid polishing the edges as this will inhibit bond.
- Remove a minimum 1/16 inch of surface (CSP 5) by abrasive blasting, steel shotblasting, scarifying, needle-scaling or high pressure water.
- Avoid bruising or micro cracking during surface preparation. Refer to ICRI Surface Preparation Guide 03732.
- Repair zone must be a minimum of 1/8 inch deep, of simple geometry, with no complex edge conditions.
- Avoid long narrow repairs; these have a tendency to crack.
- Apply Conpro Start where consolidant is of benefit.
- Saturate substrate with clean water, (saturated surface dry/SSD), with no standing water during *Priming* or *Application*.

Priming

Concrete

- Use Conpro Primer as a bonding primer. Refer to the individual product technical data bulletin for information.
- Alternatively, prime the prepared substrate including all edges with a slurry coat of the repair mortar. Work the slurry into the substrate to ensure intimate contact and establish bond. The repair material must be applied while slurry is wet. If the slurry dries, remove and recoat.

Mixing

- Mechanically mix using a low speed drill (400-600 rpm) and mixing paddle or mortar mixer.
- Pour 1 gallon of K-88 Admix into a clean mixing vessel and slowly add all of the powder.
- Mix continuously for 3 minutes to a uniform, lump-free consistency.
- Add up to 8 ounces of water, if needed.
- Allow to "breathe" for 1 minute and remix for 1 minute. This will improve workability and open time.
- Do not overmix, as this will entrain excess air.
- Do not re-temper.

Application

Concrete

- At the time of application, surfaces should be saturated surface dry (SSD) but hold no standing water.
- Follow instructions for *Priming*.
- Trowel in key coat.
- Double back applying material necessary to complete application.
- Apply with a motion similar to placing concrete.
- Form applications must be consolidated with vibrator.
- Finish with a magnesium float or trowel.
- Do not overwork the finish.

Wood

- Wood substrates must be rigid and properly fastened.
- Apply Conpro Primer as prime coat.
- Place Conpro One Shot 2C a minimum of 1/4 inch to a maximum of 1/2 inch.
- For interior applications only.

Curing

- Dampen the repair with a fine mist of water for 24 hours or moist cure with wet burlap and polyethylene.
- Protect repair from direct sunlight, wind, rain and frost during curing period.

Clean Up

- Clean tools and equipment with water immediately after use.
- Cured material must be removed mechanically.

Conpro One Shot 2C

Coverage/Yield

- 50 ft²/50 lbs. @ 1/8 inch.

Product Handling

Packaging

- 50 lbs. paper bags, and 1 gallon K-88 Admix.

Shelf Life

- 12 months when properly stored.

Storage

- Transport and store in cool, clean, dry conditions in unopened containers.
- High temperature or high humidity will reduce shelf life.
- Protect admix from freezing.

Limitations

- Do not apply unless substrate and ambient temperature can be maintained at a minimum of 45°F for 24 hours. Refer to ACI Cold Weather Application Guidelines.
- Cold mixing water and low temperature will retard set. Hot water and high temperature will accelerate set.
- Protect application from precipitation and high wind for at least 8 hours.
- Do not mix more material than can be placed in 30 minutes.
- Do not re-temper, this will damage the cross-linking of the polymer and cause cracking and loss of bond.
- Do not add more water than specified - this will lower strengths and cause shrinkage cracking.
- Avoid overworking material during placement and finishing - this will produce surface (map) cracking.

Health and Safety

- Product is alkaline.
- Do not ingest.
- Avoid breathing dust.
- Avoid contact with skin and eyes.
- Refer to Safety Data Sheet (SDS) for additional information.

First Aid

- In case of skin contact, wash thoroughly with soap and water.
- For eye contact, flush with a high volume of water for at least 15 minutes and contact a medical professional.
- For respiratory problems, remove person to fresh air.

Disposal

- Dispose of material in accordance with local, state and federal regulations.

Technical Data

Physical state and appearance		Fine, gray powder and milky liquid			
Base Powder Liquid		 Portland cement Acrylic polymer			
pH	Wet mix	>12			
Water/cement ratio		0.45			
Density	Wet mix	120 lbs./ft.³			
Setting time by vicat needle	ASTM C191	Initial 150 minutes – Final 240 minutes			
Percent air by volumetric	ASTM C173	5%			
Length change	ASTM C157	< 1000 µstrains @ 28 days			
Slant shear bond strength - epoxy	ASTM C882	1750 psi			
		1 Day	**7 Days**	**14 Days**	**28 Days**
Compressive strength – psi	ASTM C109	2500	6430	7275	7460
Tensile strength – psi	ASTM C307				600

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Masonry Repair & Restoration

Product	Natural Stone	Terracotta	Brick	Ornamental Precast	Repointing	Crack Injection
Matrix	✔	✔	✔	✔		
Matrix VE	✔			✔		
Matrix Superfine	✔	✔		✔		
Matrix TR	✔	✔	✔	✔		
RePoint					✔	
RePoint VE					✔	
Injection Grout						✔
M3P	✔	✔	✔	✔		
Terra-Color		✔				
Terracotta Finish		✔				

Product Descriptions

Matrix..... Repair mortar with over 70 standard colors plus custom color matching

Matrix VE..... Viscosity Enhanced version of Matrix for filling molds/forms to recreate architectural elements

Matrix Superfine..... Very fine version of Matrix for smooth terracotta repair and ornamental limestone

Matrix TR..... Thin repairs when full-repairs are not practical. Protective coating for lintels and sills

RePoint..... Type N & O repointing mortar available in 14 standard colors and custom color matching

RePoint VE..... Type N & O repointing mortar with Viscosity Enhance technology for use with grout bag

Injection Grout..... Micro-grout for repairing hairline to 3/4" cracks. Available in 14 standard colors

M3P..... Brush or roller applied mineral silicate coating

Terra-Color..... Match terracotta glaze with 24 standard colors and custom color matching

Terracotta Finish..... Match sheen (glossy or matte finish) of existing terracotta

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Matrix

Trowel applied, cementitious repair mortar, formulated to be compatible with the color and physical properties of parent material.

WHERE TO USE

Repair and reconstruct natural and cast stone, terracotta, and brick. Unique on-site color matching by trained, certified technicians.

Performance Characteristics

Low shrinkage
- Maintains integrity of repair, resists cracking.

Thermal compatibility
- Prevents delamination due to temperature change.

Durable
- Resistant to weathering action, excellent freeze/thaw stability and abrasion resistance.

Very low permeability
- Resistant to deicing salts, chloride, and chemical attack, and environmental pollution.

Breathability
- Will not cause damage to structure by restricting moisture vapor flow.

Shaveable
- Recreate sharp edges and architectural details.

Single component
- Easy to batch in less than full pail quantities.

On-site color matching
- Great matches, no wait for factory samples.

Surface Preparation

- Remove loose and deteriorated material, laitance, dirt, dust, oil and any surface contaminants that will inhibit proper bond.
- Saw cut edges with a diamond blade at a 90° angle to eliminate feather edging. Avoid polishing the edges, as this will inhibit bond.
- Avoid bruising or micro cracking during surface preparation. Refer to ICRI Surface Preparation Guide 03732.
- Repair zone must be a minimum of 1/2 inch deep, of simple geometry, with no complex edge conditions.
- Avoid long narrow repairs; these have a greater tendency to crack.
- Apply *Conpro Start* where a consolidant is of benefit.
- Saturate substrate with clean water, (saturated surface dry/SSD), with no standing water during *Priming* or *Application*.
- Remove concrete from corroded steel and several inches beyond to expose non-corroded steel.
- Provide a 3/4 inch clearance between the concrete and steel.
- Damaged reinforcing steel should be inspected by a qualified engineer and appropriate action taken.

Priming

Stone, Terracotta and Concrete
- Prime the prepared substrate including all edges with a bond coat of *Matrix*. Work the bond coat into the substrate to ensure intimate contact and establish bond. The repair mortar must be applied into the plastic bond coat. If the bond coat dries, remove and re-apply.

Embedded Metal and Steel
- Remove all scaling rust from embedded metal and steel.
- Apply *ECB* anti-corrosion coating.

Mixing

- Measure Matrix powder and water to achieve a 4 to 4.5 parts powder to 1 part water ratio (or approximately 1 gallon per 50 lb unit of Matrix).
- Pour measured water into a clean container suitable for mixing.
- Place 1/2 of measured Matrix into mixing container with water and mix until uniform. Add remaining 1/2 Matrix to the mixing container and mix until fully blended to a uniform, lump free consistency.
- Mechanically mix using a low speed drill (400 - 600 rpm) and mixing paddle or mortar mixer.
- Additional water may be added to achieve desired consistency for placement of the Matrix. Over watering the mix will affect final color.
- For multiple batches, the additional water should be added in a uniform fashion to avoid color shift.
- Insufficient water will not hydrate the material and it will not achieve full strength. Mix only as much material as can be placed in 15 - 20 minutes.
- Do not over mix, as this will entrain excess air.
- Do not re-temper, this will affect color.

Application

- At the time of application, surfaces should be saturated surface dry/damp (SSD) but hold no standing water.
- Follow instructions for *Priming*.
- Force the material against the edges of the repair, working from right to left or left to right.
- Over-build repair zone by 1/4 inch.
- Shave to final form with Mitre Rod up to 2 hours (longer in cold temperature) after application.
- Do not overwork the finish.

Curing

- Ensure repair zone stays properly hydrated. This may vary depending on ambient conditions. If hydration is not maintained, the repair may flash dry and not achieve full strength. Refer to ACI 308R-01 for detailed curing recommendations. If the repair is inaccessible, tape polyethylene over area to retain moisture. Do not allow polyethylene to contact the material.
- Protect repair from direct sunlight, wind, rain and frost during curing period.

Clean Up

- Clean tools and equipment with water immediately after use. Cured material must be removed mechanically.

Matrix

Theoretical Yield

Yield per Pail	Repair Depth	Square Feet
0.5 cubic feet	1/2 Inch	12.00
0.5 cubic feet	1 Inch	6.00
0.5 cubic feet	1.5 Inches	4.50
0.5 cubic feet	2 Inches	3.00

Product Handling

Packaging

- 5 gallon plastic pails – 50 lbs.

Shelf Life

- 18 months when properly stored.

Storage

- Transport and store in cool, clean, dry conditions in unopened containers.
- High temperature or high humidity will reduce shelf life.

Limitations

- Do not apply unless substrate and ambient temperature can be maintained at a minimum of 40°F for 24 hours. Refer to ACI Cold Weather Application Guidelines.
- Cold mixing water and low temperature will retard set. Hot water and high temperature will accelerate set.
- Protect application from precipitation and high wind for at least 24 hours.
- Do not add more water than specified.
- Do not re-temper, as this will affect color.
- Avoid overworking material during placement as this will affect color and cause surface checking.
- Do not allow polyethylene or burlene to touch surface while curing as this will cause whitening of the material.

Health and Safety

- Product is alkaline.
- Do not ingest.
- Avoid breathing dust.
- Avoid contact with skin and eyes.
- Refer to Material Safety Data Sheet (MSDS) for additional information.

First Aid

- In case of skin contact, wash thoroughly with soap and water.
- For eye contact, flush immediately with a high volume of water for at least 15 minutes and contact a medical professional.
- For respiratory problems, remove person to fresh air.

Disposal

- Dispose of material in accordance with local, state or federal regulations.

Technical Data

Physical state and appearance		Dry, pigmented powder		
Base		Portland cement		
pH	Wet mix	>12		
Water/dry material ratio	Wet mix	0.20		
Dry bulk density	ASTM C188	92 lbs./ft.^{3}		
Setting time by vicat needle	ASTM C191	240 minutes		
Percent air – pressure method	ASTM C231	4%		
Water absorption	ASTM C140	11%		
Water vapor transmission	ASTM E96	5.2 perms		
Length change	ASTM C157	<500 µstrains @ 28 days		
Modulus of elasticity	ASTM C469	2.6 x 10^6		
Slant shear bond strength – epoxy	ASTM C882	1800 psi		
		7 Days	**14 Days**	**28 Days**
Compressive strength – psi	ASTM C109	2900		3000
Tensile strength – psi	ASTM C307	400	480	560

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Matrix VE

Pour applied, viscosity enhanced cementitious repair mortar, formulated to be compatible with the color and physical properties of parent material.

WHERE TO USE

Form repairs and place in molds for natural and cast stone, terracotta, and brick.

Performance Characteristics

Low shrinkage

- Maintains integrity of repair, resists cracking.

Thermal compatibility

- Prevents delamination due to temperature change.

Durable

- Resistant to weathering action, excellent freeze/thaw stability and abrasion resistance.

Very low permeability

- Resistant to deicing salts, chloride, and chemical attack, and environmental pollution.

Breathability

- Will not cause damage to structure by restricting moisture vapor flow.

Pourable

- Viscosity for molds and on-site repairs.

Single component

- Easy to batch in less than full pail quantities.

On-site color matching

- Great matches, no wait for factory samples.

Surface Preparation

- Remove loose and deteriorated material, laitance, dirt, dust, oil and any surface contaminants that will inhibit proper bond.
- Saw cut edges with a diamond blade at a 90° angle to eliminate feather edging. Avoid polishing the edges, as this will inhibit bond.
- Avoid bruising or micro cracking during surface preparation. Refer to ICRI Surface Preparation Guide 03732.
- Repair zone must be a minimum of 1/2 inch deep, of simple geometry, with no complex edge conditions.
- Avoid long narrow repairs; these have a greater tendency to crack.
- Apply Conpro Start where a consolidant is of benefit.
- Saturate substrate with clean water, (saturated surface dry/SSD), with no standing water during Application.
- Remove concrete from corroded steel and several inches beyond to expose non-corroded steel.
- Provide a 3/4 inch clearance between the concrete and steel.
- Damaged reinforcing steel should be examined by a qualified engineer and appropriate action taken.

Embedded Metal and Steel

- Remove all scaling rust from embedded metal and steel.
- Apply ECB anti-corrosion coating.

Mixing

- Measure Matrix VE powder and water to achieve a 4 to 4.5 parts powder to 1 part water ratio (or approximately 1 gallon per 50 lb unit of Matrix VE).
- Pour measured water into a clean container suitable for mixing.
- Place 1/2 of measured Matrix VE into mixing container with water and mix until uniform. Add remaining 1/2 Matrix VE to the mixing container and mix until fully blended to a uniform, lump free consistency.
- Mechanical mixing at 400 – 600 rpm is essential to change the viscosity of the material. Do not mix by hand.
- Additional water may be added to achieve desired consistency for placement of the Matrix VE. Over watering the mix will affect final color.
- For multiple batches, the additional water should be added in a uniform fashion to avoid color shift.
- Insufficient water will not hydrate the material and it will not achieve full strength. Mix only as much material as can be placed in 15 -20 minutes.
- Do not over mix, as this will entrain air.
- Do not retemper, this will affect color.

Application

- At the time of application, surfaces should be saturated surface dry (SSD) but hold no standing water.
- Pour material into form/mold.
- Force the material against the edges, working from right to left or left to right, or vibrate.
- Do not overwork the finish.

Curing

- Ensure repair zone stays properly hydrated. This may vary depending on ambient conditions. If hydration is not maintained, the repair may flash dry and not achieve full strength. Refer to ACRI 308R-01 for detailed curing recommendations. If the repair is inaccessible, tape polyethylene over area to retain moisture. Do not allow polyethylene to contact the material.
- Protect repair from direct sunlight, wind, rain and frost during curing period.

Clean Up

- Clean tools and equipment with water immediately after use.
- Cured material must be removed mechanically.

Matrix VE

Theoretical Yield

Yield per Pail	Repair Depth	Square Feet
0.5 cubic feet	1/2 Inch	12.00
0.5 cubic feet	1 Inch	6.00
0.5 cubic feet	1.5 Inches	4.50
0.5 cubic feet	2 Inches	3.00

Product Handling

Packaging

- 5 gallon plastic pails – 50 lbs.

Shelf Life

- 18 months when properly stored.

Storage

- Transport and store in cool, clean, dry conditions in unopened containers.
- High temperature or high humidity will reduce shelf life.

Limitations

- Do not apply unless substrate and ambient temperature can be maintained at a minimum of 40°F for 24 hours. Refer to ACI Cold Weather Application Guidelines.
- Cold mixing water and low temperatures will retard set. Hot water and high temperatures will accelerate set.
- Protect application from precipitation and high wind for at least 24 hours.
- Do not add more water than specified.
- Do not re-temper, as this will affect color.
- Avoid overworking material during placement as this will affect color and cause surface (map) cracking.
- Do not allow polyethylene or burlene to touch surface while curing as this will cause whitening of the material.

Health and Safety

- Product is alkaline.
- Do not ingest.
- Avoid breathing dust.
- Avoid contact with skin and eyes.
- Refer to Safety Data Sheet (SDS) for additional information.

First Aid

- In case of skin contact, wash thoroughly with soap and water.
- For eye contact, flush immediately with a high volume of water for at least 15 minutes and contact a medical professional.
- For respiratory problems, remove person to fresh air.

Disposal

- Dispose of material in accordance with local, state and federal regulations.

Technical Data

Physical state and appearance		Dry, pigmented powder		
Base		Portland cement		
pH	Wet mix	>12		
Water/dry material ratio		0.20		
Dry bulk density	ASTM C188	92 lbs./ft.^{3}		
Density	Hardened	118 lbs./ft.^{3}		
Setting time by vicat needle	ASTM C191	240 minutes		
Percent air – pressure method	ASTM C231	4%		
Water absorption	ASTM C140	11%		
Water vapor transmission	ASTM E96	5.2 perms		
Length change	ASTM C157	<500 µstrains @28 days		
Modulus of elasticity	ASTM C469	2.6 X 10^6		
Slant shear bond strength – epoxy	ASTM C882	1800 psi		
		7 Days	**14 Days**	**28 Days**
Compressive strength – psi	ASTM C109	2900		3000
Tensile strength – psi	ASTM C307	400	480	560

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Matrix Superfine

Trowel applied, composite repair mortar, formulated to be compatible with the color and physical properties of parent material.

WHERE TO USE

Repair and reconstruct natural and cast stone, terracotta, and brick when a very smooth finish is required.

Performance Characteristics

Low shrinkage
- Maintains integrity of repair, resists cracking.

Thermal compatibility
- Prevents delamination due to temperature change.

Durable
- Resistant to weathering action, excellent freeze/thaw stability and abrasion resistance.

Very low permeability
- Resistant to deicing salts, chloride, and chemical attack, and environmental pollution.

Breathability
- Will not cause damage to structure by restricting moisture vapor flow.

Shaveable
- Recreate sharp edges and architectural details. Long "carving" window while mortar cures.

Single component
- Easy to batch in less than full pail quantities.

On-site color matching
- Great matches, no wait for factory samples.

Surface Preparation

- Remove loose and deteriorated material, laitance, dirt, dust, oil and any surface contaminants that will inhibit proper bond.
- Saw cut edges with a diamond blade at a 90° angle to eliminate feather edging. Avoid polishing the edges, as this will inhibit bond.
- Avoid bruising or micro cracking during surface preparation. Refer to ICRI Surface Preparation Guide 03732.
- Repair zone must be a minimum of 1/2 inch deep, of simple geometry, with no complex edge conditions.
- Avoid long narrow repairs; these have a greater tendency to crack.
- Apply Conpro Start where a consolidant is of benefit.
- Saturate substrate with clean water, (saturated surface dry/SSD), with no standing water during Priming or Application.
- Remove cast stone/concrete from corroded steel and several inches beyond to expose non-corroded steel.
- Provide a 3/4 inch clearance between the substrate and any steel elements.
- Damaged reinforcing steel should be examined by a qualified engineer and appropriate action taken.

Priming

Embedded Metal and Steel
- Remove all scaling rust from embedded metal and steel.
- Apply ECB anti-corrosion coating.

Stone, Terracotta and Concrete
- Prime the prepared substrate including all edges with a bond coat of Matrix Superfine just prior to starting application. Work the bond coat into the substrate to ensure intimate contact and establish bond (about 1/16" – 1/8"). The repair mortar must be applied into the plastic bond coat. If the bond coat dries, remove and re-apply.

Mixing

- Measure Matrix Superfine powder and water to achieve a 4 part powder to 1 part water ratio.
- Pour measured water into a clean container suitable for mixing.
- Place 1/2 of measured Matrix Superfine into mixing container with water and mix until uniform. Add remaining 1/2 Matrix Superfine to the mixing container and mix until fully blended to a uniform, lump free consistency.
- Mechanically mix using a low speed drill (400 – 600 rpm) and mixing paddle or mortar mixer.
- Additional water may be added to achieve desired consistency for placement of the Matrix Superfine. Over watering the mix will affect final color.
- For multiple batches, the additional water should be added in a uniform fashion to avoid color shift.
- Insufficient water will not hydrate the material and it will not achieve full strength. Mix only as much material as can be placed in 15 -20 minutes.
- Do not over mix, as this will entrain air.
- Do not retemper, this will affect color.

Application

- At the time of application, surfaces should be saturated surface dry (SSD) but hold no standing water.
- Follow instructions for Priming.
- Force the material against the edges of the repair, working from right to left or left to right.
- Over build repair zone by 1/4 inch.
- Shave to final form with Mitre Rod up to 2+ hours (longer in cold temperatures) after application.
- Do not overwork the finish.

Curing

- Ensure repair zone stays properly hydrated. This may vary depending on ambient conditions. If hydration is not maintained, the repair may flash dry and not achieve full strength. Refer to ACRI 308R-01 for detailed curing recommendations. If the repair is inaccessible, tape polyethylene over area to retain moisture. Do not allow polyethylene to contact the material.
- Protect repair from direct sunlight, wind, rain and frost during curing period.

Clean Up

- Clean tools and equipment with water immediately after use.
- Cured material must be removed mechanically.

Matrix Superfine

Theoretical Yield

Yield per Pail	Repair Depth	Square Feet
0.5 cubic feet	1/2 Inch	12.00
0.5 cubic feet	1 Inch	6.00
0.5 cubic feet	1.5 Inches	4.50
0.5 cubic feet	2 Inches	3.00

Product Handling

Packaging

- 5 gallon plastic pails – 50 lbs.

Shelf Life

- 18 months when properly stored.

Storage

- Transport and store in cool, clean, dry conditions in unopened containers.
- High temperature or high humidity will reduce shelf life.

Limitations

- Do not apply unless substrate and ambient temperature can be maintained at a minimum of 40°F for 24 hours. Refer to ACI Cold Weather Application Guidelines.
- Cold mixing water and low temperatures will retard set. Hot and high temperatures will accelerate set.
- Protect application from precipitation and high wind for at least 24 hours.
- Do not add more water than specified.
- Do not re-temper, as this will affect color.
- Avoid overworking material during placement as this will affect color and cause surface (map) cracking.
- Do not allow polyethylene or burlene to touch surface while curing as this will cause whitening of the material.

Health and Safety

- Product is alkaline.
- Do not ingest.
- Avoid breathing dust.
- Avoid contact with skin and eyes.
- Refer to Safety Data Sheet (SDS) for additional information.

First Aid

- In case of skin contact, wash thoroughly with soap and water.
- For eye contact, flush immediately with a high volume of water for at least 15 minutes and contact a medical professional.
- For respiratory problems, remove person to fresh air.

Disposal

- Dispose of material in accordance with local, state and federal regulations.

Technical Data

Physical state and appearance		Dry, pigmented powder		
Base		Portland cement		
pH	Wet mix	>12		
Water/dry material ratio		0.20		
Dry bulk density	ASTM C188	92 lbs./ft.^{3}		
Density	Hardened	118 lbs./ft.^{3}		
Setting time by vicat needle	ASTM C191	240 minutes		
Percent air – pressure method	ASTM C231	4%		
Water absorption	ASTM C140	11%		
Water vapor transmission	ASTM E96	10.07 perms		
Length change	ASTM C157	<500 µstrains @28 days		
Modulus of elasticity	ASTM C469	2.6 X 10^6		
Slant shear bond strength – epoxy	ASTM C882	1800 psi		
		7 Days	**14 Days**	**28 Days**
Compressive strength – psi	ASTM C109	2900		3000
Tensile strength – psi	ASTM C307	400	480	560

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Matrix TR

Brush or trowel applied, polymer modified, cementitious repair mortar for thin repairs to natural and cast stone.

WHERE TO USE

Thin, protective repairs to brownstone, sandstone, limestone, cast stone, terracotta and concrete.

Performance Characteristics

Low shrinkage

- Maintains integrity of repair, resists cracking.

Thermal compatibility

- Prevents delamination due to temperature change.

Durable

- Resistant to weathering action, excellent freeze/thaw stability and abrasion resistance.

Very low permeability

- Resistant to deicing salts, carbonation, chloride, and chemical attack.

Breathability

- Will not cause damage to structure by restricting moisture vapor flow.

Complete kit

- Pre-measured, two component system in one container.

Extensive color spectrum

- Available in 11 standard colors and custom color matching.

Surface Preparation

- Remove loose and deteriorated material, laitance, dirt, dust, oil and any surface contaminants that will inhibit proper bond.
- Apply *Conpro Start* where a consolidant is of benefit.
- Pre-treat static cracks and voids with *Injection Grout* where applicable.
- Saturate substrate with clean water, (saturated surface dry/SSD).
- Mechanically prepare surface to be open-pored and textured (CSP 3). Refer to ICRI Surface Preparation Guide 03732 for information about surface preparation.

Priming

- No priming is required under normal circumstances.

Mixing

- Mechanically mix using a low speed drill (400-600 rpm) and mixing paddle.
- Thoroughly shake K-88 Admix to disperse the pigment.
- Mix 3 parts powder to 1 part K-88 Admix.
- Mix continuously for 3 minutes to a uniform, lump-free consistency.
- Allow to "breathe" for 1 minute and remix for 1 minute. This will improve workability and open time.
- Do not overmix, as this will entrain excess air.
- Do not re-temper.

Application

- At the time of application, surfaces should be saturated surface dry (SSD) but hold no standing water.
- Apply material with a stiff bristle brush or trowel.
- Work material into substrate to promote proper adhesion.
- Coat individual stones (not continuous over mortar joints) a maximum thickness of 1/16 inch.
- Finish with either a sponge float or trowel.
- Do not overwork the finish.

Curing

- Protect repair from direct sunlight, wind, rain condensation and frost during curing period.

Clean Up

- Clean tools and equipment with water immediately after use.
- Cured material must be removed mechanically.

Matrix TR

Coverage/Yield

- **10 lb. kit** - 20 ft^2 @ 1/16 inch.

Product Handling

Packaging

- 10 lb. kit contains 8.36 lbs. of powder and 2.1 lbs. of K-88 Admix in plastic pails.

Shelf Life

- 18 months when properly stored.

Storage

- Transport and store in cool, clean, dry conditions in unopened containers.
- High temperature or high humidity will reduce shelf life.
- Protect K-88 Admix from freezing.

Limitations

- Do not apply unless substrate and ambient temperature can be maintained at a minimum of 50°F for 24 hours. Refer to ACI Cold Weather Application Guidelines.
- Protect application from precipitation condensation and high wind for at least 24 hours.
- Do not re-temper, polymer modified materials.
- Avoid overworking material during placement.
- Do not apply curing compounds.
- Do not allow polyethylene or burlene to touch surface while curing as this will cause whitening of the material.

Health and Safety

- Product is alkaline.
- Do not ingest.
- Avoid breathing dust.
- Avoid contact with skin and eyes.
- Refer to Safety Data Sheet (SDS) for additional information.

First Aid

- In case of skin contact, wash thoroughly with soap and water.
- For eye contact, flush immediately with a high volume of water for at least 15 minutes and contact a medical professional.
- For respiratory problems, remove person to fresh air.

Disposal

- Dispose of material in accordance with local, state and federal regulations.

Technical Data

Physical state and appearance		Dry pigmented powder and liquid		
Base Powder Liquid admix		 Portland cement Acrylic polymer		
pH	Wet mix	>12		
Liquid/dry material ratio		0.33		
Dry bulk density	ASTM C188	93 lbs./ft.^{3}		
Density	Hardened	118 lbs./ft.^{3}		
Setting time @ 1/8 inch thickness	ASTM C953	Initial 15 minutes – Final 30 minutes		
Durometer hardness	ASTM D2240	70		
Water vapor transmission	ASTM E96	5.1 perms		
Accelerated weathering	ASTM G154	2000 hours – excellent – no effect		
		7 days	**14 Days**	**28 days**
Compressive strength - psi	ASTM C109	4000	5100	6200
Tensile strength – psi	ASTM C307	200	250	350

FOR PROFESSIONAL USE ONLY

Conproco warrants this product for one year from the date of manufacture to be free from manufacturing defects and to meet the technical properties on the current technical data sheet if used as directed within shelf life. User determines suitability of product for use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product, exclusive of labor or cost of labor. January 2, 2019.

NO OTHER WARRANTIES EXPRESSED OR IMPLIED SHALL APPLY, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. CONPROCO CORP SHALL NOT BE LIABLE UPON ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES.

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RePoint & RePoint VE

Meets the requirements of ASTM C387 and C270 for the respective compressive strength of Type O or Type N mortars.

WHERE TO USE

Available in both Type O or Type N formulations and can be used anywhere these types are specified.

Performance Characteristics

- Developed for historic structures but can be used anywhere a Type O or Type N mortar is required.
- Suitable for joint replacement on stone, brick, book tile, terracotta and cast stone.

Low Shrinkage

- Maintains integrity of repair, resists cracking.

Breathability

- Will not cause damage to structure by restricting moisture vapor flow.

Single Component

- Easy to batch in less than full pallet quantities.

Very low permeability

- Resistant to deicing salts, chloride, chemical attack and environmental pollution.
- Available VE (Viscosity Enhanced) formulas to allow for pumping, bag install or when greater workability, extended working times are desired.

Description

- RePoint is a Portland/Lime based mortar without the additives often found in masonry cement based mortars. RePoint does not contain any polymers; it is a proprietary blend of Portland, lime and sand.
- Custom color matching available.
- 11 standard Masonry Restoration colors.

Preparation

- Remove all loose and/or deteriorated material as well as any surface contaminants such as oil, paint, grease, etc.
- Saturate substrate with clean water (saturated surface dry/SSD), with no standing water prior to *Application* to achieve proper curing.

Mixing

- Empty contents of the bag or pail into an appropriate mixing vessel.
- Add 4 to 5 parts powder to 1 part water depending on joint size and shape to achieve proper consistency.
- Allow to prehydrate for 30 minutes to minimize shrinkage if required by specification.
- Add additional water (half pint) to achieve desired consistency.
- Do not retemper after desired consistency has been achieved.

Application

- Apply using approved pointing technologies (see ASTM E2260) and finish with appropriate tooling.
- RePoint VE is designed to be installed using a grout bag, mortar pump or grouting sponge where applicable. Contact your Conproco rep for details.
- Temperatures should be between 40° and 90°F.
- Protect from rain and excessive moisture for 12 hours after installation.
- Protect from below freezing temperatures for 48 hours after installation.

Clean Up

- When dry enough not to smear – cut mortar "tags" from the surface and then brush across joints with a dry, soft bristle brush. If a rougher texture is required a stiffer bristle brush can be used.
- Cleaning with water and chemicals can be performed 3 days after curing. Test cleaning methods prior to beginning to ensure they will not adversely alter the color or texture of the joints.
- Harsh acids may damage the integrity of the mortar if overused or not fully neutralized. Chemical manufacturers should be consulted prior to testing cleaning methods.
- Clean tools and equipment with water immediately after use.
- Cured material must be removed mechanically.

Curing

- Mist the substrate after initial set (24 hours) to ensure hydration and minimize shrinkage cracking.

RePoint & RePoint VE

Theoretical Yield

1 Bag/Pail (50 lb)	Joint Width	Joint Depth	Lineal Feet
1 Bag/Pail (50 lb)	1/4 inch	5/8 inch	442
1 Bag/Pail (50 lb)	3/8 inch	3/4 inch	245
1 Bag/Pail (50 lb)	1/2 inch	1 inch	138

Caution

- May cause eye and skin irritation.

Health and Safety

- Product is alkaline.
- Do not ingest.
- Avoid breathing dust.
- Avoid contact with skin and eyes.
- Refer to Safety Data Sheet (SDS) for additional information.
- Keep out of reach of children.

First Aid

- In case of skin contact, wash thoroughly with soap and water.
- For eye contact, flush immediately with water for at least 15 minutes and contact a medical professional.
- For respiratory problems, remove person to fresh air.

Disposal

- Dispose of material in accordance with local, state and federal regulations.

Technical Data

		Type O	Type N
Physical state and appearance		Dry powder with aggregate.	Dry powder with aggregate.
Base		Portland Cement/Lime Blend	Portland Cement/Lime Blend
pH	Wet mix	>12	>12
Aggregate type		Graded Sand	Graded Sand
Compressive strength at 28 days	ASTM C109	350 - 425 psi	750 - 1000 psi
Flow	ASTM C230	110% +/- 5%	110% +/- 5%

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Injection Grout

Cementitious crack injection grout/adhesive for the repair of hairline to 3/4 inch cracks in masonry and concrete.

WHERE TO USE

Repair and reconstruct brownstone, sandstone, limestone, cast stone, concrete, marble, granite, terracotta and brick.

Performance Characteristics

Low shrinkage

- Maintains integrity of repair, resists cracking.

Thermal compatibility

- Prevents delamination due to temperature change.

Durable

- Resistant to weathering action, excellent freeze/thaw stability and abrasion resistance.

Low Viscosity

- Excellent flow into cracks and voids.

Breathability

- Will not cause damage to structure by restricting moisture vapor flow.

Single Component

- Easy to batch in less than full pail quantities.

Surface Preparation

- Remove loose and deteriorated material, laitance, dirt, dust, oil and any surface contaminants that will inhibit proper bond.
- It is recommended to use air or water to remove unseen debris from the crack interior prior to injection.
- Test all cracks and voids for proper flow prior to injection. If potable water will not flow into the crack, the injection grout will not be successful either.
- Surface temperature and ambient temperature should be greater than 40°F and less than 90°F.

Mixing

- Mechanically mix using a low speed drill (400-600 rpm) and mixing paddle or mortar mixer.
- Pour 5.5 – 6.5 quarts of potable water into a clean mixing vessel and slowly add all of the powder. Use a 3:1 powder to water ratio for small batches.
- If using as an adhesive, use a mix ratio of 4:1 – 5:1 depending on preference of the installer.
- Mix only as much material as can be placed in 15 – 20 minutes.
- Do not overmix, as this will entrain excess air.

Application

- Drill a series of injection ports directly into the center of the crack at a downward (approximately 45°) angle to the substrate. Determine the spacing of the ports by first drilling a single port and filling it with water. This will provide a visual reference as to the space required between each port.
- After drilling all ports, clean debris from the crack with both compressed air and water.
- To prevent seepage of grout between ports, seal with a non-staining, easy to remove clay, sealant or caulk.
- Begin by injecting the lowest port in the crack and work upwards. Move to the next higher port when the grout is visible at that port or when the crack will no longer accept additional material.
- For cracks more than 3/4" wide place foam backer rod into crack and proceed as described above. Once the grout has hardened, remove backer rod and fill remaining depth with ISR-CM, Matrix or Conpro Set repair mortar.

When using injection grout to fill behind a delaminated substrate

- Determine the spacing required as discussed above. Once this has been determined, lay out a grid of ports spaced equidistant in a vertical and horizontal plane.
- Inject grout into the lowest line of ports and continue until it flows freely from this port and other ports at the same level.
- Seal ports using a non-staining clay, sealant or caulk and proceed to the next highest vertical line of ports.
- Repeat the process until each port will no longer accept additional material.
- Clean up overflow and seepage immediately with clean water to prevent staining.

When using as an adhesive to reconstruct broken masonry elements

- Before mixing grout, fit broken pieces together and determine if clamps and/or wedges are needed to secure pieces while they cure. Use dowels or reinforcing pins as determined by an engineer.
- Saturate interface with water where grout will be applied, while surface is still damp, apply a thin coat (1/16") to both sides of the entire interface.
- Press and hold pieces together. Wipe excess from face with a sponge and clean water.
- Do not disturb the repair for 24 hours.

Equipment

- Injection can be achieved by using injection syringes, modified bulk guns, or low pressure grout pumps (less than 30 psi).
- **Note:** Strain grout with a fine screen or sieve prior to syringe application.

Curing

- 24 hours under normal circumstances.

Clean Up

- Clean tools and equipment with water immediately after use.
- Cured material must be removed mechanically.

Injection Grout

Coverage/Yield

- 0.41 ft^3/30 lb pail.

Product Handling

Packaging

- 30 lb plastic pails.

Shelf Life

- 18 months when properly stored.

Storage

- Transport and store in cool, clean, dry conditions in unopened containers.
- High temperature or high humidity will reduce shelf life.

First Aid

- If swallowed, contact a medical professional immediately.
- Do not induce vomiting unless directed to do so by a qualified medical professional.
- In case of skin contact, wash thoroughly with soap and water.
- In case of eye contact, flush with a high volume of water for at least 15 minutes.
- For respiratory problems, remove person to fresh air. If difficulty persists, contact a medical professional.

Disposal

- Dispose of material in accordance with local, state and federal regulations.

Technical Data

Physical state and appearance		Gray powder	
Viscosity		65 – 75 KU immediate lab	
Specific gravity – wet		1.8	
Volume ratio		1 part water/3 parts powder	
Weight ratio		1 lb. water/2.3 lbs. powder	
		7 Days	**28 Days**
Compressive strength	ASTM C109	≥ 2800 psi	≥ 3800 psi
Tensile strength	ASTM C348		≥ 475 psi

FOR PROFESSIONAL USE ONLY

Conproco warrants this product for one year from the date of manufacture to be free from manufacturing defects and to meet the technical properties on the current technical data sheet if used as directed within shelf life. User determines suitability of product for use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product, exclusive of labor or cost of labor. June 10, 2020.

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M3P

Brush or roller applied, mineral silicate coating.

WHERE TO USE

Long term protection and enhanced aesthetics of concrete, masonry and stone. Opaque and semi-transparent finishes are obtainable.

Performance Characteristics*

Anti-carbonation
- Reacts with calcium hydroxide at surface, mitigating carbonation to depth of penetration.

Water repellent
- Siloxane component provides long term protection from water and water borne contaminants.

Non-film forming
- Will not peel, blister or flake.

Breathability
- 97% vapor permeable.

Stable
- Unaffected by UV.
- Fire resistant.

Colorfast
- Fade resistant pigments

Environmentally friendly
- Water based, low odor, low VOC.

Ease of application
- Can be blended for semi-transparent finishes, stir and apply.

Extensive color spectrum
- 34 standard colors, plus Matrix colors and custom matching.

Surface Preparation

- Remove loose and deteriorated material, laitance, dirt, dust, oil and any surface contaminants that will inhibit proper penetration.
- Prepare surface to be sandpaper-like texture (CSP 3) by mechanical abrasion or water blasting. Refer to ICRI Surface Preparation Guide 03732 for information about Concrete Surfac Profile (CSP).
- Surface must be dry and frost free.
- New concrete or repairs must cure a minimum of 7 days prior to applicatio..
- Substrate must be absorptive for proper application.

Priming

- M3P is a self-priming two coat system. Mockups will determine if chalking can occur as a result of an unusually high absorption rate of the substrate

Mixing

- Stir or mechanically mix using a low speed drill (400 - 600) until homogenous. Product may settle during storage or shipping.
- Box mix pails from different batches when an entire surface is visible.
- For opaque finishes, no dilution is required.
- For transparent finishes, mix with M3P-X in ratios of 1:1, 1:2, 1:3, 1:4, etc. The more M3P-X added, the greater transparency in the finish.
- Higher dilution rates require more frequent stirring, be sure to mix/stir often to maintain color consistency.

Application

- Two coats of M3P at selected dilution is required to achieve best results.
- Apply a test sample to determine suitability. Ensure by visual inspection that M3P has penetrated the substrate. Surface must be absorptive for M3P application to be successful.
- Ambient temperature must be above 45°F for the entire curing period.
- For roller applications use a 3/8 – 1/2 inch synthetic nap roller depending on texture of substrate.
- Brush or back roll into substrate for pinhole free, uniform coverage.
- Work to pre-determined break points in the structure. DO NOT CUT IN!
- Maintain a wet edge while working to each architectural break point.
- A second application of M3P can be applied after the first is dry-to-touch.

Curing

- Protect from moisture for 24-48 hours.

Clean Up

- Clean tools and equipment with water. Clean adjacent areas with water before material dries.

M3P

Coverage/Yield

- Coverage rates vary considerably from substrate to substrate for all potassium silicate coatings due to surface texture and absorption rates of the masonry being coated. Apply a mockup to determine coverage rates for specific project.
- M3P – 150 – 300 ft²/gal.

Product Handling

Packaging

- 5 gallon containers. 45 lbs. per unit.

Shelf Life

- 18 months in unopened containers.

Storage

- Protect from freezing.
- Transport and store in cool, clean, dry conditions in unopened containers.
- High temperature will reduce shelf life.

Limitations

- Do not apply if precipitation is forecast within 24 hours of application.
- Do not apply in strong winds.
- Do not apply to frozen surfaces.
- Do not apply if temperature of substrate is below 45°F.
- Do not apply if ambient temperature is below 45°F. Ambient temperature must stay above 45°F during curing period.

Health and Safety

- Product is alkaline.
- Do not ingest.
- Avoid contact with skin and eyes.
- Refer to Safety Data Sheet (SDS) for additional information.

First Aid

- In case of skin contact, wash thoroughly with soap and water.
- For eye contact, flush immediately with a high volume of water for at least 15 minutes and contact a medical professional.
- For respiratory problems, remove person to fresh air.
- If respiratory difficulty persists, contact a medical professional.

Disposal

- Dispose of material in accordance with local, state and federal regulations.

Technical Data

Physical state & appearance		Thick liquid emulsion, natural
Base		Aqueous
pH		11.2
Percent solids by weight		31%
Viscosity	ASTM D562	65 - 69 KU – paint paddle
Density of liquid coatings	ASTM D1475	9.4 lbs./gal
Drying time		1 hour @ 65°F – dry to touch
Fungus resistance	Fed. Spec. TT-P-19D	No growth
Accelerated weathering – QUV	ASTM G154	2000 hours – UV-B cycled with condensation - no effect
Hiding power of coating @ 5 mils.	ASTM D2805	Excellent
Water penetration and leakage	ASTM E514	100% reduction
Water vapor transmission	ASTM D6490	96% WVT
Water vapor transmission – Procedure B	ASTM E96	75 perms
Heat stability	ASTM C932	Pass – 2 weeks @ 120°F
Mud cracking @ 10 mils.		None

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Terra-Color

100% acrylic waterproof coating to recreate the color and pattern (faux finish) of terracotta before application of Terracotta Finish.

WHERE TO USE
Used to create colored glaze finishes for brick and terracotta repair.

Performance Characteristics

- Used to create the base color or faux finish of repair area.
  Weather resistant
- Long-term protection.
- Two-coat application passes ASTM E514 for wind driven rain.
  Breathability
- Water vapor permeable.
  Durable
- UV stable.
  Mildew resistant.
  Colorfast
- Premium quality, exterior grade pigments minimize fading.
  Extensive color spectrum
- 38 standard colors and custom matching.

Surface Preparation

- Remove loose and deteriorated material, laitance, dirt, dust, oil and any surface contaminants that will inhibit proper adhesion.
- Prepare surface to be sandpaper-like texture (CSP 3) by mechanical abrasion or medium water blasting. Refer to ICRI Surface Preparation Guide 03732 for information about Concrete Surface Profile (CSP).
- Surface must be dry and frost free.
- Small voids, air pockets, static cracks up to 1/16 inch and irregularities should be filled with Matrix TR.
- Repair larger voids and damaged areas with Matrix or MIMIC.
- Repair hairline to 3/4 inch cracks with Conproco Injection Grout (do not fill cavities).
  Available in 8 standard colors.

Mixing

- Stir or mechanically mix using a low speed drill (400 - 600) until homogenous.
- Mix pails from different batches when an entire surface is visible.

Application

- Apply a test sample to determine adhesion. Test using ASTM D3359 cross-hatch adhesion procedure.
- Substrate temperature must be above 45°F.
- Ambient temperature must be above 45°F for the entire curing period.
- Brush apply a uniform 8 mils. wet thickness.
- Maintain a wet edge.
- Apply a second coat when the first is dry-to-touch.
- Apply *Terracotta Finish* (available in gloss or matte) over cured Terra-Color to achieve depth seen in most terracotta glazes or to recreate fire skin on brick.

Curing

- Protect from moisture for 24 hours.

Clean Up

- Clean tools and equipment with water. Clean adjacent areas with water before material dries.

Terra-Color

Coverage/Yield

- 200 ft.^{2}/gal. @ 8 mils. wet.

Product Handling

Packaging

- 1 gallon containers.

Shelf Life

- 18 months in unopened containers.

Storage

- Protect from freezing.
- Transport and store in cool, clean, dry conditions in unopened containers.
- High temperature will reduce shelf life.

Limitations

- Do not apply if precipitation is forecast within 24 hours of application.
- Do not apply in strong winds.
- Do not apply to frozen surfaces.
- Do not apply if temperature of substrate is below 45°F.
- Do not apply if ambient temperature is below 45°F.
- Do not apply in areas susceptible to ponding water.

Health and Safety

- Product is alkaline.
- Do not ingest.
- Avoid contact with skin and eyes.
- Avoid breathing vapors.
- Refer to Safety Data Sheet (SDS) for additional information.

First Aid

- In case of skin contact, wash thoroughly with soap and water.
- For eye contact, flush immediately with a high volume of water for at least 15 minutes and contact a medical professional.
- For respiratory problems, remove person to fresh air.
- If respiratory difficulty persists, contact a medical professional.

Disposal

- Dispose of material in accordance with local, state and federal regulations.

Technical Data

Physical state and appearance		Paint-like liquid
Base		Aqueous
Polymer		100% acrylic
pH		9.0 – 9.5
Percent solids by weight		54%
Viscosity	ASTM D562	90 KU – paint paddle
Density of liquid coatings	ASTM D1475	8.4 lbs./gal.
Water vapor transmission	ASTM D1653 wet cup	10 perms
Water penetration and leakage	ASTM E514	100% reduction
Accelerated weathering – QUV	ASTM G154	10,000 hours – UV-B cycled with condensation – no effect
Hiding power of coating	ASTM D2805	Excellent – minimum thickness is 8 mils. WFT

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Terracotta Finish

Brush or roller applied, single component, water based clear sealer. Available in gloss and matte finish.

WHERE TO USE

Replicate glaze on terracotta or fire skin on brick. Apply over Terra-Color to match surrounding undamaged terracotta.

Performance Characteristics

Durable
- Advanced chemistry provides long lasting protection from weathering.

UV stable
- Will not yellow
- or discolor with age.

Anti-carbonation
- Mitigates carbonation of concrete.

Breathability
- Water vapor permeable.

Water repellent
- Passes ASTM E514.

Environmentally friendly
- Water based technology, low odor, non-flammable.

Two finishes
- Gloss and Matte.

Surface Preparation

- Remove loose and deteriorated material, laitance, dirt, dust, oil and any surface contaminants that will inhibit proper adhesion.
- If acid washing is used to prepare substrate, neutralize with 1 part ammonia to 3 parts water solution flooded over the surface. Residual acid in the substrate will cause *Terracotta Finish* to form a milky film instead of a clear finish. If this occurs, the material must be removed.
- Surface must be dry at time of application to allow maximum penetration.
- Protect adjacent areas from overspray.

Priming

- Priming is not necessary under normal circumstances.

Mixing

- Stir container.

Application

- Always apply a test area to determine suitability of application.
- Brush or roll material onto substrate in a uniform 6 mils. coat.
- Brush out ponded material before surrounding area dries.
- 2 coats are recommended for complete protection.
- Allow the first coat to cure 3 - 4 hours @ 72°F; 7 - 8 hours @ 50 - 70°F before applying additional coats.
- Each additional coat of Terracotta Gloss Finish will increase the intensity of gloss.

Curing

- Protect from moisture for 24 hours @ 72°F.

Clean Up

- Clean tools, equipment and adjacent areas with water before material dries.

Terracotta Finish

Coverage/Yield

- Actual coverage will vary depending on substrate porosity. Test application should be applied to determine actual coverage, number of applications required and compatibility with substrate.

Typical coverage

- Terracotta – 200 - 300 ft.²/gal.
  MIMIC/Matrix – 150 - 250 ft.²/gal.
  Brick – 200 - 300 ft.²/gal.
  Concrete block – 75 - 125 ft.²/gal.

Product Handling

Packaging

- 1 gallon container.

Shelf Life

- 18 months in unopened containers.

Storage

- Protect from freezing.
- Transport and store in cool, clean, dry conditions in unopened containers.
- High temperature will reduce shelf life.

Limitations

- If acid washing is used to clean, substrate must be neutralized with 1 : 3 ammonia/water solution flooded over the surface.
- Do not apply if precipitation is forecast within 24 hours of application.
- Do not apply in strong winds.
- Do not apply to frozen surfaces.
- Do not apply if temperature of substrate is below 45°F.
- Do not apply if ambient temperature is below 45°F.
- Do not apply in areas susceptible to water ponding.

Health and Safety

- Product is alkaline.
- Do not ingest.
- Avoid breathing dust.
- Avoid contact with skin and eyes.
- Refer to Safety Data Sheet (SDS) for additional information.

First Aid

- In case of skin contact, wash thoroughly with soap and water.
- For eye contact, flush with a high volume of water for at least 15 minutes and contact a medical professional.
- For respiratory problems, remove person to fresh air.
- If respiratory difficulty persists, contact a medical professional.

Disposal

- Dispose of material in accordance with local, state or federal regulations.

Technical Data

Physical state and appearance Wet Dry		 Thick – milky white liquid Clear – dull or gloss – plastic-like film
Base		Aqueous
Polymer		Carboxylated styrene acrylic
pH		>9.5
Percent solids by weight		53%
Flash point	ASTM D56	150°F Seta cc
Volatile organic content - VOC	ASTM D3960	58 gms./liter
Density of liquid coatings	ASTM D1475	8.0 lbs./gal.
Water vapor transmission	ASTM D1653 wet cup	11 perms – 1 coat
Accelerated weathering – QUV	ASTM G154	2000 hours – UV-B cycled with condensation – no effect
Water penetration and leakage	ASTM E514	100% reduction
Freeze/thaw stability	ASTM C932	Pass – 5 cycles @ 15°F
Heat stability	ASTM C932	Pass – 4 weeks @ 120°F
Gloss finish – terracotta tile	ASTM D523	85°F untreated 1.5 – treated 11.0 60°F untreated 1.5 – treated 11.0

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Protective Coatings

Product	Vertical	Overhead	Horizontal	Historic	Painted Surfaces	Unpainted Surfaces
M3P	✔	✔		✔		✔
M3P Overcoat	✔	✔		✔	✔	✔
Conpro Lastic	✔				✔	✔
Color Coat	✔	✔			✔	✔
Super Color Stain	✔	✔	✔			✔
Plastermix	✔					✔
Conpro Shield MX	✔		✔			✔
Elastideck			✔			✔

Product Descriptions

M3P..... Brush or roller applied mineral silicate coating

M3P Overcoat..... Brush or roller applied hybrid mineral silicate/acrylic coating

M3P-X..... Clear mineral silicate diluent for creating semi-transparent finish with M3P

Conpro Lastic..... Waterproof, elastomeric, crack bridging, anti-carbonation membrane

Color Coat ..... 100% acrylic coating formulated for high pH Portland cement surfaces

Super Color Stain ..... Water-based opaque acrylic stain

Plastermix ..... Cementitious parge coat used to provide uniform surface to cast-in-place concrete

Conpro Shield MX..... Clear, penetrating water repellent for concrete and masonry

Elastideck..... Flexible traffic bearing decorative coating. Available in 14 standard colors

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M3P

Brush or roller applied, mineral silicate coating.

WHERE TO USE

Long term protection and enhanced aesthetics of concrete, masonry and stone. Opaque and semi-transparent finishes are obtainable.

Performance Characteristics*

Anti-carbonation
- Reacts with calcium hydroxide at surface, mitigating carbonation to depth of penetration.

Water repellent
- Siloxane component provides long term protection from water and water borne contaminants.

Non-film forming
- Will not peel, blister or flake.

Breathability
- 97% vapor permeable.

Stable
- Unaffected by UV.
- Fire resistant.

Colorfast
- Fade resistant pigments

Environmentally friendly
- Water based, low odor, low VOC.

Ease of application
- Can be blended for semi-transparent finishes, stir and apply.

Extensive color spectrum
- 34 standard colors, plus Matrix colors and custom matching.

Surface Preparation

- Remove loose and deteriorated material, laitance, dirt, dust, oil and any surface contaminants that will inhibit proper penetration.
- Prepare surface to be sandpaper-like texture (CSP 3) by mechanical abrasion or water blasting. Refer to ICRI Surface Preparation Guide 03732 for information about Concrete Surfac Profile (CSP).
- Surface must be dry and frost free.
- New concrete or repairs must cure a minimum of 7 days prior to applicatio..
- Substrate must be absorptive for proper application.

Priming

- M3P is a self-priming two coat system. Mockups will determine if chalking can occur as a result of an unusually high absorption rate of the substrate

Mixing

- Stir or mechanically mix using a low speed drill (400 - 600) until homogenous. Product may settle during storage or shipping.
- Box mix pails from different batches when an entire surface is visible.
- For opaque finishes, no dilution is required.
- For transparent finishes, mix with M3P-X in ratios of 1:1, 1:2, 1:3, 1:4, etc. The more M3P-X added, the greater transparency in the finish.
- Higher dilution rates require more frequent stirring, be sure to mix/stir often to maintain color consistency.

Application

- Two coats of M3P at selected dilution is required to achieve best results.
- Apply a test sample to determine suitability. Ensure by visual inspection that M3P has penetrated the substrate. Surface must be absorptive for M3P application to be successful.
- Ambient temperature must be above 45°F for the entire curing period.
- For roller applications use a 3/8 – 1/2 inch synthetic nap roller depending on texture of substrate.
- Brush or back roll into substrate for pinhole free, uniform coverage.
- Work to pre-determined break points in the structure. DO NOT CUT IN!
- Maintain a wet edge while working to each architectural break point.
- A second application of M3P can be applied after the first is dry-to-touch.

Curing

- Protect from moisture for 24-48 hours.

Clean Up

- Clean tools and equipment with water. Clean adjacent areas with water before material dries.

M3P

Coverage/Yield

- Coverage rates vary considerably from substrate to substrate for all potassium silicate coatings due to surface texture and absorption rates of the masonry being coated. Apply a mockup to determine coverage rates for specific project.
- M3P – 150 – 300 ft²/gal.

Product Handling

Packaging

- 5 gallon containers. 45 lbs. per unit.

Shelf Life

- 18 months in unopened containers.

Storage

- Protect from freezing.
- Transport and store in cool, clean, dry conditions in unopened containers.
- High temperature will reduce shelf life.

Limitations

- Do not apply if precipitation is forecast within 24 hours of application.
- Do not apply in strong winds.
- Do not apply to frozen surfaces.
- Do not apply if temperature of substrate is below 45°F.
- Do not apply if ambient temperature is below 45°F. Ambient temperature must stay above 45°F during curing period.

Health and Safety

- Product is alkaline.
- Do not ingest.
- Avoid contact with skin and eyes.
- Refer to Safety Data Sheet (SDS) for additional information.

First Aid

- In case of skin contact, wash thoroughly with soap and water.
- For eye contact, flush immediately with a high volume of water for at least 15 minutes and contact a medical professional.
- For respiratory problems, remove person to fresh air.
- If respiratory difficulty persists, contact a medical professional.

Disposal

- Dispose of material in accordance with local, state and federal regulations.

Technical Data

Physical state & appearance		Thick liquid emulsion, natural
Base		Aqueous
pH		11.2
Percent solids by weight		31%
Viscosity	ASTM D562	65 - 69 KU – paint paddle
Density of liquid coatings	ASTM D1475	9.4 lbs./gal
Drying time		1 hour @ 65°F – dry to touch
Fungus resistance	Fed. Spec. TT-P-19D	No growth
Accelerated weathering – QUV	ASTM G154	2000 hours – UV-B cycled with condensation - no effect
Hiding power of coating @ 5 mils.	ASTM D2805	Excellent
Water penetration and leakage	ASTM E514	100% reduction
Water vapor transmission	ASTM D6490	96% WVT
Water vapor transmission – Procedure B	ASTM E96	75 perms
Heat stability	ASTM C932	Pass – 2 weeks @ 120°F
Mud cracking @ 10 mils.		None

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M3P-X

Mineral silicate diluent.

WHERE TO USE

Clear penetrating mineral Silicate diluent used for creating semi-transparent finishes with M3P.

Performance Characteristics*

Anti-carbonation

- Reacts with calcium hydroxide at surface, mitigating carbonation to depth of penetration.

Water repellent

- Siloxane component provides long-term protection from water and water borne contaminants.

Non-film forming

- Will not peel, blister or flake.

Breathability

- 97% vapor permeable.

Stable

- Unaffected by UV.
- Fire resistant.

Environmentally friendly

- Water based, low odor, low VOC.

Ease of application

- Mix with *M3P* in various ratios to create a mineral stain effect.

Surface Preparation

- Remove loose and deteriorated material, laitance, dirt, dust, oil and any surface contaminants that will inhibit proper penetration.
- Prepare surface to be sandpaper-like texture (CSP 3) by mechanical abrasion or water blasting. Refer to ICRI Surface Preparation Guide 03732 for information about Concrete Surface Profile (CSP).
- Surface must be dry and frost free.
- New concrete must cure at least 14 days before application.

Mixing

- Stir or mechanically mix using a low speed drill (400 - 600) until homogenous.
- Box mix pails from different batches when an entire surface is visible.
- For transparent finishes, mix with *M3P* in ratios of 1:1, 1:2, 1:3, 1:4, etc. The more *M3P-X* added, the greater transparency in the finish.
- Higher dilution rates require more frequent stirring, be sure to mix/stir often to maintain color consistency.

Application

- Two coats of *M3P* at selected dilution is required to achieve best results.
- Apply a test sample to determine suitability. Ensure by visual inspection that *M3P* has penetrated the substrate. Surface must be absorptive for M3P application to be successful.
- Ambient temperature must be above 45°F for the entire curing period.
- For roller applications use a 3/8 - 1/2-inch synthetic nap roller depending on texture of substrate.
- For spray applications use an airless sprayer with a 0.017 - 0.021 tip.
- Work to pre-determined break points in the structure. DO NOT CUT IN!
- Maintain a wet edge while working to each architectural break point.
- A second application of *M3P* can be applied after the first is dry-to-touch.

Curing

- Protect from moisture for 24-48 hours.

Clean Up

- Clean tools and equipment with water. Clean adjacent areas with water before material dries.

M3P-X

Coverage/Yield

- Coverage rates vary considerably from substrate to substrate for all potassium silicate coatings due to surface texture and absorption rates of the masonry being coated. Apply a mockup to determine coverage rates for specific project.
- *M3P-X* – 150 – 300 ft²/gal.

Product Handling

Packaging

- 5 gallon containers. 45 lbs. per unit
  1 gallon containers. 9 lbs. per unit

Shelf Life

- 18 months in unopened containers.

Storage

- Protect from freezing.
- Transport and store in cool, clean, dry conditions in unopened containers.
- High temperature will reduce shelf life.

Limitations

- Do not apply if precipitation is forecast within 24 hours of application.
- Do not apply in strong winds.
- Do not apply to frozen surfaces.
- Do not apply if temperature of substrate is below 45°F.
- Do not apply if ambient temperature is below 45°F. Ambient temperature must stay above 45°F during curing period.

Health and Safety

- Product is alkaline.
- Do not ingest.
- Avoid contact with skin and eyes.
- Refer to Safety Data Sheet (SDS) for additional information.

First Aid

- In case of skin contact, wash thoroughly with soap and water.
- For eye contact, flush immediately with a high volume of water for at least 15 minutes and contact a medical professional.
- For respiratory problems, remove person to fresh air.
- If respiratory difficulty persists, contact a medical professional.

Disposal

- Dispose of material in accordance with local, state and federal regulations.

Technical Data

Physical state & appearance		White – milky liquid
Base		Aqueous
pH		11.2
Percent solids by weight		9.7%
Viscosity	ASTM D562	26 KU – paint paddle
Density of liquid coatings	ASTM D1475	9.1 lbs./gal

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M3P Overcoat

Roller or brush applied, hybrid mineral silicate paint.

WHERE TO USE

M3P Overcoat is used over properly prepared silicone, elastomeric or conventional masonry coatings and unpainted surfaces.

Performance Characteristics*

Painted surface compatibility

- M3P Overcoat was developed to maintain maximum vapor permeability of previously coated structures.

Versatility

- M3P Overcoat can also be applied to sound uncoated masonry surfaces in addition to coated surfaces.
- M3P Overcoat is the preferred potassium silicate product for surfaces with exposed aggregate.

Breathability

- Will not decrease MVT.

Water repellent

- Siloxane component provides long term protection from water and water borne contaminants.

Stable

- Unaffected by UV. Fire resistant.

Environmentally friendly

- Water based, low odor, low VOC.

Ease of application

- Single component, stir and apply.

Extensive color spectrum

- 34 standard colors, plus Masonry Restoration standard colors and custom matching.

Surface Preparation

- Remove loose and deteriorated material, laitance, dirt, dust, oil and any surface contaminants that will inhibit proper penetration.
- Surface must be dry and frost free.
- New concrete or repairs must cure a minimum of 7 days prior to application.

Priming

- No priming is required.

Mixing

- Stir or mechanically mix using a low speed drill (400 - 600) until homogenous.
- Mix pails from different batches when an entire surface is visible.

Application

- Apply a test sample in an inconspicuous area to determine suitability.
- Always check adhesion by using a Tape test such as ASTM D3359.
- Roll or brush apply a uniform 7 mils wet coat. Allow to dry a minimum of 12 hours. Apply a second uniform 7 mils wet coat.
- Substrate temperature must be above 45°F.
- Ambient temperature must be above 45°F for the entire curing period.
- For roller applications use a 3/8 - ½-inch synthetic nap roller depending on texture of substrate.
- Work to pre-determined break points in the structure.
- Maintain a wet edge.

Curing

- Protect from moisture for 24 hours.

Clean Up

- Clean tools and equipment with water. Clean adjacent areas with water before material dries.

M3P Overcoat

Coverage/Yield

- 170 – 300 ft.²/gal.
- 100 – 180 ft.²/gal. for split block or rough surfaces.

Product Handling

Packaging

- 5 gallon containers.

Shelf Life

- 18 months in unopened containers.

Storage

- Protect from freezing.
- Transport and store in cool, clean, dry conditions in unopened containers.
- High temperature will reduce shelf life.

Limitations

- Do not apply if precipitation is forecast within 24 hours of application.
- Do not apply in strong winds.
- Do not apply to frozen surfaces.
- Do not apply if temperature of substrate is below 45ºF.
- Do not apply if ambient temperature is below 45ºF.

Health and Safety

- Product is alkaline.
- Do not ingest.
- Avoid contact with skin and eyes.
- Refer to Safety Data Sheet (SDS) for additional information.

First Aid

- In case of skin contact, wash thoroughly with soap and water.
- For eye contact, flush immediately with a high volume of water for at least 15 minutes and contact a medical professional.
- For respiratory problems, remove person to fresh air.
- If respiratory difficulty persists, contact a medical professional.

Disposal

- Dispose of material in accordance with local, state and federal regulations.

Technical Data

Physical state & appearance		Thick liquid emulsion, natural
Base		Aqueous
pH		11.2
Percent solids by weight		51%
Viscosity	ASTM D562	95 - 105 KU – paint paddle
Density of liquid coatings	ASTM D1475	9.4 lbs./gal
Drying time		1 hour @ 65ºF – dry to touch
Fungus resistance	Fed. Spec. TT-P-19D	No growth
Accelerated weathering – QUV	ASTM G154	2000 hours – UV-B cycled with condensation - no effect
Hiding power of coating @ 5 mils.	ASTM D2805	Excellent
Water vapor transmission	ASTM D6490	71% WVT
Water vapor transmission – Procedure B	ASTM E96	65 perms
Water penetration and leakage	ASTM E514	100% reduction
Heat stability	ASTM C932	Pass – 2 weeks @ 120ºF
Mud cracking @ 10 mils.		None

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Conpro Lastic

Roller, spray or brush applied, waterproof, elastomeric, crack bridging, anti-carbonation membrane.

WHERE TO USE

Protect vertical concrete, block, brick, stucco and EIFS from water and contaminant entry. Will bridge minor cracking.

Performance Characteristics

Flexible
- Retains elasticity at low temperatures.

Waterproof
- Two 15 mils. wet coats provide waterproof membrane.

Anti-carbonation
- Mitigates carbonation of concrete.

Breathability
- Water vapor permeable.

Alkaline stable
- Formulated for highly alkaline substrates.

Durable
- UV stable. Mildew resistant.

Colorfast
- Premium quality exterior grade pigments, minimize fading.

Textures
- Available in sanded and smooth finishes.

Extensive color spectrum
- 38 standard colors and custom matching.

Surface Preparation

- Remove loose and deteriorated material, laitance, dirt, dust, oil and any surface contaminants that will inhibit proper adhesion.
- Prepare surface to a sandpaper-like texture (CSP 3) by mechanical abrasion or medium water blasting. Refer to ICRI Surface Preparation Guide 03732 for information about Concrete Surface Profile (CSP).
- Surface must be dry and frost free.
- Small voids, air pockets, static cracks up to 1/16 inch and irregularities should be filled with Plastermix.
- Repair larger voids and damaged areas with Conpro Set.
- For cracks greater than 1/16 inch, rout and caulk with a urethane sealant. Refer to SWRI Sealants – The Professionals' Guide.
- Apply Plastermix to concrete where a monolithic, void free texture is desired.
- Apply Plastermix on reinforced concrete to increase carbonation resistance.

Priming

- Priming is not necessary under normal circumstances.

Mixing

- Stir or mechanically mix using a low speed drill (400 - 600) until homogenous.
- Mix pails from different batches when an entire surface is visible.

Application

- Apply a test sample to determine adhesion. Test using ASTM D3359 cross-hatch adhesion procedure.
- Substrate temperature must be above 45°F.
- Ambient temperature must be above 45°F for the entire curing period.
- Roll, spray or brush apply a uniform 15 mils. wet – dries to 7 mils.
- For roller applications use a 1 - 1-1/4 inch synthetic nap roller depending on texture of substrate.
- For spray applications use a Graco 3500, President or Bulldog or equivalent with a 0.041 - 0.047 tip.
- Spray application must be back rolled for a pin-hole free surface.
- Work to pre-determined break points in the structure.
- Maintain a wet edge.
- Apply a second coat when the first is dry-to-touch.

Curing

- Protect from moisture for 24 hours and wind driven rain for 72 hours.

Clean Up

- Clean tools and equipment with water. Clean adjacent areas with water before material dries.

Conpro Lastic

Coverage/Yield

- 100 ft.^{2}/gal. @ 15 mils. wet for smooth surfaces.
- 50 - 75 ft.^{2}/gal. @ 15 mils. wet for split block or rough surfaces.

Product Handling

Packaging

- 5 gallon containers

Shelf Life

- 18 months in unopened containers.

Storage

- Protect from freezing.
- Transport and store in cool, clean, dry conditions in unopened containers.
- High temperature will reduce shelf life.

Limitations

- Do not apply if precipitation is forecast within 24 hours of application.
- Do not apply in strong winds.
- Do not apply to horizontal or overhead surfaces.
- Do not apply to frozen surfaces.
- Do not apply if temperature of substrate is below 45°F.
- Do not apply if ambient temperature is below 45°F.
- Do not apply in areas susceptible to ponding water.

Health and Safety

- Product is alkaline.
- Do not ingest.
- Avoid contact with skin and eyes.
- Avoid breathing vapors.
- Refer to Safety Data Sheet (SDS) for additional information.

First Aid

- In case of skin contact, wash thoroughly with soap and water.
- For eye contact, flush immediately with a high volume of water for at least 15 minutes and contact a medical professional.
- For respiratory problems, remove person to fresh air.
- If respiratory difficulty persists, contact a medical professional.

Disposal

- Dispose of material in accordance with local, state and federal regulations.

Technical Data

Grade		Smooth	Sanded (Textured)
Physical state and appearance		Liquid – tinted – thick paint	Liquid – tinted – thick paint
Base		Aqueous	Aqueous
Polymer		100% acrylic	100% acrylic
pH		9.5 - 10.5	9.5 - 10.5
Percent solids by weight		54%	62%
Percent solids by volume	ASTM D2697	46%	-
Viscosity	ASTM D562	<142 KU	<142 KU
Flame spread	ASTM E84	Zero	Zero
Density of liquid coatings	ASTM D1475	10.6 lbs./gal.	11.2 lbs./gal.
Tear resistance	ASTM D6083	80 lbs./inch.	28 lbs./inch.
Moisture vapor transmission Method B wet cup	ASTM D1653	16.2 perms @ 15 mils. DFT	39 perms @ 15 mils. DFT
Accelerated weathering – QUV	ASTM G154	2000 hours – UV-B cycled with condensation – no effect	Same data as for smooth
Resistance to chemicals	ASTM D1308	Excellent	Excellent
Water penetration and leakage	ASTM E514	100% reduction	100% reduction
Wind driven rain	Fed. Spec TT-C-555B	Pass	Pass
Wind driven rain	ASTM D6904	Pass	-
Dirt pick-up	ASTM D3719	Excellent	Excellent
Low temperature flexibility	ASTM D522	Pass	Pass
Low temperature flexibility after 1000 hrs.	ASTM D522	Pass	Pass
Tensile	ASTM D412	270 psi	-
Elongation	ASTM D412	485%	-
Crack Bridging	ASTM C1305	No Cracking	-

FOR PROFESSIONAL USE ONLY

Conproco warrants this product for one year from the date of manufacture to be free from manufacturing defects and to meet the technical properties on the current technical data sheet if used as directed within shelf life. User determines suitability of product for use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product, exclusive of labor or cost of labor. July 29, 2020.

NO OTHER WARRANTIES EXPRESSED OR IMPLIED SHALL APPLY, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. CONPROCO CORP SHALL NOT BE LIABLE UPON ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES.

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Color Coat

Roller, spray or brush applied, 100% acrylic waterproof coating.

WHERE TO USE

Enhance appearance and protect vertical and overhead concrete block, stucco, brick and synthetic stucco.

Performance Characteristics

Weather resistant
- Long-term protection.
- Two-coat application passes ASTM E514 for wind driven rain.

Breathability
- Water vapor permeable.

Alkaline stable
- Formulated for highly alkaline substrates.

Durable
- UV stable. Mildew resistant.

Colorfast
- Premium quality, exterior grade pigments minimize fading.

Textures
- Available in sanded and smooth finishes.

Extensive color spectrum
- 38 standard colors and custom matching.

Surface Preparation

- Remove loose and deteriorated material, laitance, dirt, dust, oil and any surface contaminants that will inhibit proper adhesion.
- Prepare surface to be sandpaper-like texture (CSP 3) by mechanical abrasion or medium water blasting. Refer to ICRI Surface Preparation Guide 03732 for information about Concrete Surface Profile (CSP).
- Surface must be dry and frost free.
- Small voids, air pockets, static cracks up to 1/16 inch and irregularities should be filled with Plastermix.
- Repair larger voids and damaged areas with Conpro Set.
- For cracks greater than 1/16 inch, rout and caulk with a urethane sealant. Refer to SWRI Sealants – The Professionals' Guide.
- Apply Plastermix to concrete surfaces where a monolithic, void free texture is desired.

Priming

- Priming is not necessary under normal circumstances.

Mixing

- Stir or mechanically mix using a low speed drill (400 - 600) until homogenous.
- Mix pails from different batches when an entire surface is visible.

Application

- Apply a test sample to determine adhesion. Test using ASTM D3359 cross-hatch adhesion procedure.
- Substrate temperature must be above 45°F.
- Ambient temperature must be above 45°F for the entire curing period.
- Roll, spray or brush apply a uniform 8 mils. wet thickness.
- For roller applications use a 1/2 - 3/4 inch synthetic nap roller depending on texture of substrate.
- For spray applications use a Graco 3500, President or Bulldog or equivalent.
- Spray application must be back rolled for a pin-hole free surface.
- Work to pre-determined break points in the structure.
- Maintain a wet edge.
- Apply a second coat when the first is dry-to-touch.

Curing

- Protect from moisture for 24 hours.

Clean Up

- Clean tools and equipment with water. Clean adjacent areas with water before material dries.

Color Coat

Coverage/Yield

- 200 ft.^{2}/gal. @ 8 mils. wet.
- 120 ft.^{2}/gal. @ 8 mils. wet for split block or rough surfaces.

Product Handling

Packaging

- 5-gallon containers.

Shelf Life

- 18 months in unopened containers.

Storage

- Protect from freezing.
- Transport and store in cool, clean, dry conditions in unopened containers.
- High temperature will reduce shelf life.

Limitations

- Do not apply if precipitation is forecast within 24 hours of application.
- Do not apply in strong winds.
- Do not apply to frozen surfaces.
- Do not apply if temperature of substrate is below 45°F.
- Do not apply if ambient temperature is below 45°F.
- Do not apply in areas susceptible to ponding water.

Health and Safety

- Product is alkaline.
- Do not ingest.
- Avoid contact with skin and eyes.
- Avoid breathing vapors.
- Refer to Safety Data Sheet (SDS) for additional information.

First Aid

- In case of skin contact, wash thoroughly with soap and water.
- For eye contact, flush immediately with a high volume of water for at least 15 minutes and contact a medical professional.
- For respiratory problems, remove person to fresh air.
- If respiratory difficulty persists, contact a medical professional.

Disposal

- Dispose of material in accordance with local, state and federal regulations.

Technical Data

Physical state and appearance		Paint-like liquid
Base		Aqueous
Polymer		100% acrylic
pH		9.0 - 9.5
Percent solids by weight		54%
Viscosity	ASTM D562	90 KU – paint paddle
Density of liquid coatings	ASTM D1475	8.4 lbs./gal.
Water vapor transmission	ASTM D1653 wet cup	10 perms
Water penetration and leakage	ASTM E514	100% reduction
Accelerated weathering – QUV	ASTM G154	10,000 hours – UV-B cycled with condensation – no effect
Hiding power of coating	ASTM D2805	Excellent – minimum thickness is 8 mils. WFT

FOR PROFESSIONAL USE ONLY

Conproco warrants this product for one year from the date of manufacture to be free from manufacturing defects and to meet the technical properties on the current technical data sheet if used as directed within shelf life. User determines suitability of product for use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product, exclusive of labor or cost of labor. July 29, 2020

NO OTHER WARRANTIES EXPRESSED OR IMPLIED SHALL APPLY, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. CONPROCO CORP SHALL NOT BE LIABLE UPON ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES.

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Super Color Stain

Roller, spray or brush applied, water based opaque acrylic stain.

WHERE TO USE

Enhance appearance and protect concrete, CMU, stucco, brick, and as a washable finish for Elastideck.

Performance Characteristics

Water repellent
- 2 coat application passes ASTM E514.

Breathability
- Water vapor permeable. Suitable for on-grade applications.

Alkaline stable
- Formulated for highly alkaline substrates.

Durable
- UV stable. Mildew resistant.

Colorfast
- Premium quality, exterior grade pigments minimize fading.

Extensive color spectrum
- 38 standard colors and custom matching.

Low maintenance
- Excellent dirt and stain resistance.

Surface Preparation

- Remove loose and deteriorated material, laitance, dirt, dust, oil and any surface contaminants that will inhibit proper adhesion.
- Prepare surface to be sandpaper-like texture (CSP 3) by mechanical abrasion or water blasting. Refer to ICRI Surface Preparation Guide 03732 for information about Concrete Surface Profile (CSP).
- Surface must be dry and frost free.
- Repair large voids and damaged areas with Conpro Set.
- For cracks greater than 1/16 inch rout and caulk with a urethane sealant. Refer to SWRI Sealants – The Professionals' Guide.

Priming

- Priming is not necessary under normal circumstances.

Mixing

- Stir or mechanically mix using a low speed drill (400 - 600) until homogenous.
- Mix pails from different batches when an entire surface is visible.

Application

- Apply a test sample to determine adhesion. Test using ASTM D335 cross-hatch adhesion test.
- Substrate temperature must be above 45°F.
- Ambient temperature must be above 45°F for the entire curing period.
- For roller applications use a 3/8 - 1/2 inch synthetic nap roller depending on texture of substrate.
- For spray applications use an airless sprayer with a 0.019 - 0.021 tip.
- Work to pre-determined break points in the structure.
- Maintain a wet edge.
- A second coat may be applied when the first is dry-to-touch.

For horizontal applications
- First apply Elastideck to the substrate. Next, apply Super Color Stain in the same color to provide a durable pedestrian wear surface. Refer to Elastideck data bulletin for more information.

Curing

- Protect from moisture for 24 hours.

Clean Up

- Clean tools and equipment with water immediately after use. Clean adjacent areas with water before material dries.

Super Color Stain

Coverage/Yield

- 250 ft.^{2}/gal. @ 6 mils wet.
- 150 ft.^{2}/gal. @ 6 mils wet for split block or rough surfaces.

Product Handling

Packaging

- 5-gallon containers.

Shelf Life

- 18 months in unopened containers.

Storage

- Protect from freezing.
- Transport and store in cool, clean, dry conditions in unopened containers.
- High temperature will reduce shelf life.

Limitations

- A light color stain may not completely hide a dark substrate, even with 2 coats.
- Do not apply if precipitation is forecast within 24 hours of application.
- Do not apply in strong winds.
- Do not apply to frozen surfaces.
- Do not apply if temperature of substrate is below 45°F.
- Do not apply if ambient temperature is below 45°F.

Health and Safety

- Product is slightly alkaline.
- Do not ingest.
- Avoid contact with skin and eyes.
- Avoid breathing vapors.
- Refer to Safety Data Sheet (SDS) for additional information.

First Aid

- In case of skin contact, wash thoroughly with soap and water.
- For eye contact, flush immediately with a high volume of water for at least 15 minutes and contact a medical professional.
- For respiratory problems, remove person to fresh air.
- If respiratory difficulty persists, contact a medical professional.

Disposal

- Dispose of material in accordance with local, state and federal regulations.

Technical Data

Physical state and appearance		Liquid emulsion – thin – paint-like
Base		Aqueous
Polymer		100% Acrylic
pH		8.7
Percent solids by weight		35%
Percent solids by volume		31%
Viscosity	ASTM D562	81 KU – paint paddle
Volatile organic content – VOC	ASTM D3960	Less than 0.32 lbs./gal. – 38 gms./liter
Density of liquid coatings	ASTM D1475	9.64 lbs./gal.
Drying time		2 hours @ 65°F – dry to touch
Water vapor transmission	ASTM D1653 wet cup	12 perms – 1 coat @ 5 mils.
Fungus resistance	Fed. Spec. TT-P-19D	Pass – no growth
Accelerated weathering – QUV	ASTM G154	2000 hours – UV-B cycled with condensation – no effect
Resistance to chemicals	ASTM C1308	Dried ketchup/Dried coffee/Dried soda – excellent Gas/Motor oil - excellent
Wind driven rain	Fed. Spec TT-C-555B	No leakage @ 62 mph – 2 coats
Water penetration and leakage	ASTM E514	100% reduction – 2 coats
Resistance to abrasion – tabor	ASTM C1353	250 cycles – 2.8% loss – H22 wheel with 500 gms.
Freeze/thaw stability	ASTM C932	Pass
Heat stability	ASTM C932	Pass – 2 weeks @ 120°F
Dirt pick-up	ASTM D3719	Excellent
Mud cracking @ 15 mils.		None

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Plastermix

Trowel, sponge float, or spray applied, Portland cement finish coating for concrete.

WHERE TO USE
Fill voids and provide a uniform finish to cast concrete.

Performance Characteristics

Long term protection

- Density and thickness provide resistance to carbonation.

Enhanced aesthetics

- Significantly improves the natural appearance of concrete, filling voids, sealing pores and adding subtle, uniform texture.

Improves performance of supplemental coatings

- Fills voids and pores that coatings don't, providing uniform, monolithic base for protective coatings, such as Conpro Lastic, Super Color Stain and Color Coat.

Anti-carbonation system

- Combined with Conpro Lastic provides protection from carbonation, chlorides and other environmental pollutants.

Economical

- High production, easy to apply by spray, trowel or sponge float.

Surface Preparation

- Remove loose and deteriorated material, laitance, dirt, dust, oil and any surface contaminants that will inhibit proper bond.
- Repair spalled areas, static cracks and voids with *Conpro Set*.
- Substrate should have open-pored and textured surface.
- For best results grind or abrasive blast (CSP 3). Refer to ICRI Surface Preparation Guide 03732 for information about Concrete Surface Preparation (CSP).
- Apply *Conpro Start* where a consolidant is of benefit.
- Saturate substrate with clean water, (saturated surface dry/SSD). Wall should be wet when *Plastermix* is applied.

Priming

- No priming is required under normal circumstances.

Mixing

- Mechanically mix using a low speed drill (400 - 600 rpm) and mixing paddle or mortar mixer.
- Pour 3-3/4 quarts of potable water into a clean mixing vessel and slowly add all of the powder.
- Add 1 quart of K-88 Admix (replacing 1 quart of water) per bag of material to increase adhesion and aid in curing, when the substrate is very dense and/or when rapid evaporation will occur due to high wind and high temperature.
- The proper mix ratio is 4 ½ parts powder to 1 part water to ¼ parts K-88 Admix.
- Mix continuously for 3 minutes to a uniform, lump-free consistency.
- Add up to 1 pint of additional water if needed.
- Allow to "breathe" for 1 minute and remix for 1 minute. This will improve workability and open time.
- Do not over mix, as this will entrain excess air.

Application

- At the time of application, surfaces should be saturated surface dry (SSD) but hold no standing water.
- Bagging – mix 1 part *K-88 Admix* with 3 parts water to a slurry consistency. Apply with a sponge float to fill voids and bug holes.
- Texture coat – apply with a trowel. Allow material to take up to thumb-print hard. Apply second application with a trowel and finish with a sponge float.
- Do not exceed 1/16 inch total thickness.

Curing

- Keep damp with a fine mist of water.
- Protect from direct sunlight, wind, rain and frost during curing period.

Clean Up

- Clean tools and equipment with water immediately after use.
- Cured material must be removed mechanically.

Plastermix

Coverage/Yield

- 100 ft.^{2}/50 lbs.@1/16 inch.

Product Handling

Packaging

- 50 lbs. paper bags.

Shelf Life

- 12 months when properly stored.

Storage

- Transport and store in cool, clean, dry conditions in unopened containers.
- High temperature or high humidity will reduce shelf life.

Limitations

- Do not apply unless substrate and ambient temperature can be maintained at a minimum of 40°F for 24 hours. Refer to ACI Cold Weather Application Guidelines.
- Cold mixing water and low temperature will retard set. Hot water and high temperature will accelerate set.
- Protect application from precipitation and high wind for at least 24 hours.
- Do not add more water than specified.
- Avoid overworking material during placement.

Health and Safety

- Product is alkaline.
- Do not ingest.
- Avoid breathing dust.
- Avoid contact with skin and eyes.
- Refer to Safety Data Sheet (SDS) for additional information.

First Aid

- In case of skin contact, wash thoroughly with soap and water.
- For eye contact, flush immediately with a high volume of water for at least 15 minutes and contact a medical professional.
- For respiratory problems, remove person to fresh air.

Disposal

- Dispose of material in accordance with local, state and federal regulations.

Technical Data

Physical state and appearance		Fine gray powder		
Base		Portland cement		
pH		>12		
Setting my vicat needle	ASTM C191	Initial 60 minutes – Final 285 minutes		
Percent air by volumetric	ASTM C173	6%		
		7 Days	**14 Days**	**28 Days**
Compressive strength - psi	ASTM C109	2900	3000	3400
Tensile strength - psi	ASTM C307	400	500	600

FOR PROFESSIONAL USE ONLY

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Conpro Shield MX

Spray, roller or brush applied, penetrating aqueous silane/siloxane water repellent.

WHERE TO USE

Vertical and horizontal concrete, concrete block, concrete pavers, natural stone, stucco and brick.

Performance Characteristics

Maximum protection

- Passes ASTM E514.
  100% no leakage.
  94% reduction in water absorption.

Long term protection

- Advanced silicone technology.

Environmental protection

- Mitigates carbonation.
  Effective chloride ion screen.
  UV stable.
  Unaffected by microbiological activity.

Breathability

- Water vapor permeable.

Clear result

- Will not darken or alter light reflection of substrate when properly applied to a dry and untreated surface.

Cold weather application

- Apply to 40°F or above.
  With 1-hour cure will tolerate sub-freezing temperatures with no affect.
  Substrate should be frost free.

Increases durability

- Repels water from penetrating substrate. Most damage to concrete, masonry and stone is due to water entry.

Environmentally friendly

- Water based technology, low odor, easy handling and clean up.

VOC compliant

- Meets all current VOC emission standards for waterproofing, concrete/masonry sealer.

Surface Preparation

- Substrate must be clean and free of loose debris, oils, paints, previously applied water repellents or any substance that can interfere with penetration.
- Substrate must be dry and frost free. Moisture in the substrate will reduce penetration.
- Repoint loose deteriorating mortar; fill all voids and cracks in mortar.
- Inspect flashing around all openings, caulking, expansion joints and roof components to determine condition and for evidence of water entry. Material will not prevent water entry through cracks or voids in substrate or other building components.

Priming

- Priming is not necessary.

Mixing

- Stir until homogenous.

Application

- Always apply to a test area to ensure Conpro Shield MX will not affect the appearance of the surface due to reaction with previously applied materials or by drawing surface contaminants into the substrate.
- For best results apply with a low pressure sprayer using a fan tip.
- For vertical applications begin at the bottom of the wall and work up generating a 4 - 6 inch rundown.
- Work to natural break points in the structure.
- Always keep a wet edge.
- For horizontal applications begin at one edge and work backwards towards the opposite edge.
- Apply enough material to saturate the surface, but do not allow material to pond. Brush out ponded material before surrounding area dries.
- Single coat coverage is suitable for most applications.
- Multiple applications of Shield MX can be applied either wet on wet or to a cured surface.

Curing

- Protect from moisture and traffic for 8 hours.
  Material is fully cured in 14 days.

Clean Up

- Clean tools, equipment and adjacent areas with water immediately after application.
- Clean glass, metal, vinyl, aluminum with glass cleaner before material can cure.
- Cured material can be removed mechanically.

Conpro Shield MX

Coverage/Yield

- Coverage will vary depending upon porosity of substrate.
- Concrete – 125 - 175 ft.²/gal.
  Concrete block – 40 - 150 ft.²/gal.
  Brick – 100 - 175 ft.²/gal.

Product Handling

Packaging

- 1, 5 and 54 gallon plastic containers.

Shelf Life

- 18 months in unopened containers.
- Materials must be agitated thoroughly before each use to ensure homogeneity.

Storage

- Transport and store in cool, clean, dry conditions in unopened containers.
  Do Not Freeze -
  This will destroy the Shield MX.

Limitations

- Ensure adequate air movement to dissipate fumes during application and curing.
- Use safety glasses and gloves during application.
- Do not dilute.
- Do not spray in high winds.
- Always apply a sample to determine suitability to substrate.
- Does not prevent water entry through cracks, penetrations or open joints.
- Not applicable for below-grade waterproofing.
- Not recommended for use on bluestone.

Health and Safety

- Product is alkaline.
- Do not ingest.
- Avoid breathing mist.
- Avoid contact with skin and eyes.
- Refer to Safety Data Sheet (SDS) for additional information.

First Aid

- If swallowed contact a medical professional immediately.
- Do not induce vomiting.
- In case of skin contact, wash thoroughly with soap and water.
- For eye contact, flush immediately with a high volume of water for at least 15 minutes and contact a medical professional.
- For respiratory problems, remove person to fresh air. If respiratory difficulty persists, contact a medical professional.

Disposal

- Dispose of material in accordance with local, state and federal regulations.

Technical Data

Physical state and appearance		Milky white liquid
pH		9
Odor		Slight
Solids by weight		11%
Solvent system		Aqueous
Volatile organic content - VOC	ASTM D3960	<50 gms./liter
Active ingredients		Siloxane based
Density of liquid coatings	ASTM D1475	8.4 lbs./gal.
Accelerated weathering - QUV	ASTM G154	2000 hours UV-B cycled with condensation – no effect
Accelerated weathering – carbon-arc	ASTM G152	Pass – no effect
Water penetration and leakage	ASTM E514	100% reduction, no staining or leakage
Water vapor transmission	ASTM E96	100%
Resistance to salt spray	ASTM B117	Pass – no effect
Moisture absorption	ASTM C140	Reduction compared to control 94%
NCHRP 244 Series II Reduction in chloride ion intrusion		82%

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Elastideck

Spray, roller or squeegee applied, acrylic modified, cementitious, flexible, waterproof membrane. Available in 14 standard colors.

WHERE TO USE
Decorative coating for balconies, walkways, driveways, planters and parapets.

Performance Characteristics

Flexible
- Able to bridge minor cracking.

Waterproof
- Positive side waterproofing membrane requires two coats.

Decorative
- Available in 14 colors to complement surroundings.

Durable
- Resistant to weathering action, excellent freeze/thaw stability and abrasion resistance.

Very low permeability
- Resistant to deicing salts, chloride, and chemical attack, and environmental pollution.

Breathability
- Will not cause damage to structure by restricting moisture vapor flow. Ideal for slab-on-grade.

Two component
- Pre-measured, pigmented liquid with powder in one container for consistent performance.

Surface Preparation

- Remove loose and deteriorated material, laitance, dirt, dust, oil and any surface contaminants that will inhibit proper bond.
- Remove a minimum 1/16 inch of surface (CSP 5) by abrasive blasting, steel shotblasting, scarifying, needle-scaling or high pressure water.
- Avoid bruising or micro cracking during surface preparation. Refer to ICRI Surface Preparation Guide 03732.
- Apply Conpro Start where a consolidant is of benefit.
- Saturate substrate with clean
- water, (saturated surface dry/SSD),with no standing water during *Priming* or *Application*.

Priming

- No priming is required under normal circumstances.

Mixing

- Mechanically mix using a low speed drill (400 - 600 rpm) and mixing paddle or mortar mixer.
- Thoroughly shake Elastideck admix to disperse the pigment.
- Pour Elastideck admix into a clean mixing vessel and slowly add all of the powder.
- For smaller batches, the proper mix ratio is 1 part powder to 1 part admix.
- Mix continuously for 3 minutes to a uniform, lump-free consistency.
- Do not over mix, as this will entrain excess air.
- Do not re-temper.
- Elastideck has a pot life of 10 - 15 minutes. For best results, pre-plan work to be within pot life.

Application

- At the time of application, surfaces should be saturated surface dry (SSD) but hold no standing water.
- Clean and pre-stripe non-structural cracks (up to 1/16 inch) with one 4 inch wide, 50 mils. application of material.
- Dynamic cracks, joints and transitions (wall-to-slab) must be properly detailed with a closed cell backer rod and polyurethane sealant. Refer to SWRI Sealants, The Professionals' Guide.
- Apply 4 - 6 inch wide stripe of material over cured sealant. Embed mesh fabric while material is plastic.
- Apply a 50 mils. coat over the entire surface with a heavy nap roller, sponge float, squeegee or spray.
- Option: Apply two 30 mils coats using a 1/2" nap roller for waterproofing, longer service life and more consistent texture.
- Work material into substrate to promote proper adhesion.
- Do not exceed 60 mils. per coat.
- Do not overwork the finish.
- Elastideck must cure to a point that it will accept light foot traffic prior to application of Super Color Stain (approximately 24 hours @ 70°F and 50°RH).
- Apply Super Color Stain in the
- same color as Elastideck to provide added protection, color uniformity and stain resistance.

Curing

- Protect repair from direct sunlight, wind, rain and frost during curing period.

Clean Up

- Clean tools and equipment with water immediately after use.
- Cured material must be removed mechanically.

Elastideck

Coverage/Yield

- 80 ft.²/25 lbs. kit per coat @ 50 mils.

Product Handling

Packaging

- 5 gallon plastic pail contains 12.5 lbs. of powder and 1-1/4 gallons of admix.

Shelf Life

- 18 months when properly stored.

Storage

- Transport and store in cool, clean, dry conditions in unopened containers.
- High temperature or high humidity will reduce shelf life.
- Protect from freezing.

Limitations

- Do not apply unless substrate and ambient temperature can be maintained at a minimum of 45°F for 24 hours. Refer to ACI Cold Weather Application Guidelines.
- Protect application from precipitation and high wind for at least 8 hours.
- Do not place rubber mats or equivalent on Elastideck for 14 days.
- Do not add water.
- Do not re-temper, polymer modified materials.
- Avoid overworking material during placement.

Health and Safety

- Product is alkaline.
- Do not ingest.
- Avoid breathing dust.
- Avoid contact with skin and eyes.
- Refer to Safety Data Sheet (SDS) for additional information.

First Aid

- In case of skin contact, wash thoroughly with soap and water.
- For eye contact, flush with a high volume of water for at least 15 minutes and contact a medical professional.
- For respiratory problems, remove person to fresh air.

Disposal

- Dispose of material in accordance with local, state and federal regulations.

Technical Data

Physical state and appearance		White powder and admix.
Base Powder Liquid Polymer		 Portland cement Milky, liquid emulsion Styrene acrylic
pH	Wet mix	>12
VOC	ASTM D3960	Less than 0.15 lbs./gal. (per mixed kit)
Setting time	ASTM C953	Initial 120 minutes – Final 300 minutes
Elongation	ASTM D2370	180%
Water vapor transmission	ASTM E96	8-10 perms
Resistance to hydrostatic pressure	CRD-48-73	100% reduction
Accelerated weathering	ASTM C1519	2000 hours – no effect
Taber abrasion resistance	ASTM C1353	2000 cycles, less than 0.8% weight loss (H22 wheel with 500 grams of weight)
Tensile strength – psi	ASTM C307	810
Mandrel bend test	ASTM D522	1/8 in. @ 68°F and 27°F

FOR PROFESSIONAL USE ONLY

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Exterior Wall Systems

	Impact – Direct Applied			Impact RM (Metal Lath)		
Product	Base Coat	Finishes	Accessories	Base Coat	Finishes	Accessories
Structural Skin & K-88	✔			✔		
Conpro One Coat				✔		
Conpro Stucco & Color K-88		✔			✔	
Plastic Components 1025 1/4" casing bead			✔			
Plastic Components 1A Corner Bead			✔			
Plastic Components 2025 M Control Joint			✔			
2.5 self-furring metal lath (dimpled)						✔
3/8" - 1/2" metal casing bead						✔
3/8" - 1/2" metal corner bead						✔
3/8" - 1/2" metal corner bear						✔

Product Descriptions

Structural Skin..... Base coat for exterior wall systems and structural coating for dry stacking CMU

Conpro One Coat ..... Combines scratch and brown coat for EWS. Fiber-reinforced, add sand on site

Conpro Stucco..... Durable Portland cement based stucco

K-88 Admix ..... Improves curing and performance of cementitious materials. Increases adhesion

Color K-88 Admix..... Add color and improved durability to Stucco

Plastic Components ..... https://plasticomponents.com

Metal Accessories ..... www.clarkdietrich.com

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Structural Skin®

Trowel or spray applied, fiber reinforced, cement based structural coating. Refer to Conproco Exterior Wall Systems.

WHERE TO USE

Base coating for exterior wall systems over block, concrete, brick, exterior sheathing and plywood.

Performance Characteristics

Waterproof barrier

- Passes ASTM E514.

Anti-carbonation barrier

- Mitigates carbonation of concrete.

Durable

- Resistant to weathering action, excellent freeze/thaw stability and abrasion resistance.

Breathability

- Allows moisture to diffuse, preventing damage from moisture build-up in wall system.

Structural

- When applied to both sides of dry stacked concrete block, forms a structural wall system. IBC approved.

Smooth finish

- Ready for roller, spray and trowel applied decorative coatings such as Conpro Lastic or Conpro Color Coat.

Surface Preparation

- Remove loose and deteriorated material, laitance, dirt, dust, oil and any surface contaminants that will inhibit proper bond.
- Repair spalled areas, static cracks and voids with Conpro Set or Structural Skin.
- Substrate should have open-pored and textured surface.
- Apply Conpro Start where a consolidant is of benefit.
- Saturate substrate with clean water, (saturated surface dry/SSD). Wall should be wet when Structural Skin is applied.
- For best results on concrete grind or abrasive blast (CSP 3). Refer to ICRI Surface Preparation Guide 03732 for information about Concrete Surface Preparation (CSP).
- Refer to Conproco Exterior Wall Systems literature for preparation over substrates other than concrete and concrete block.

Priming

- No priming is required under normal circumstances.

Mixing

- Mechanically mix using a low speed drill (400 - 600 rpm) and mixing paddle or mortar mixer.
- Pour 5 quarts of potable water into a clean mixing vessel and slowly add all of the powder.
- Mix continuously for 3 minutes to a uniform, lump-free consistency.
- Add up to 1 pint of additional water if needed.
- Allow to "breathe" for 1 minute and remix for 1 minute. This will improve workability and open time.
- Do not over mix, as this will entrain air and cause damage to the glass fibers.

Application

Mortarless concrete block wall system

- At the time of application, surfaces should be saturated surface dry (SSD) but hold no standing water.
- Concrete block must be butt tight and wall plumb and level.
- Trowel or spray apply material to a uniform minimum of 1/8 inch.
- Apply with a vertical motion and finish with a horizontal motion.
- Material must be applied so that both sides of the wall have a uniform, continuous 1/8 inch coating.

Conproco Impact Wall System (existing block, brick and concrete)

- At the time of application, surfaces should be saturated surface dry (SSD) but hold no standing water.
- Add 1 quart of K-88 Admix (replacing 1 quart water) per bag of material.
- The proper mix ratio is 5 parts powder to 1 part water to ¼ parts K-88 Admix.
- Trowel or spray apply material to a uniform minimum of 1/8 inch.
- Apply additional coat at 1/16 - 1/8 inch to achieve a level plane where desirable.
- Trowel on with a vertical motion and finish with a horizontal motion.

Conproco Impact RM Wall System (reinforced metal lath)

- Plywood and OSB must be APA Exterior rated and be firmly attached to substrate in accordance with applicable building codes.
- Masonry and concrete walls must be structurally sound.
- Place trim accessories (expansion joints, corner bead, etc.) as specified.
- Mechanically fasten self-furring diamond mesh metal lath (complying with ASTM C841 and ASTM C847) within the confines of the panels created by the trim accessories. Make sure to overlap the flanges of the trim accessories.
- Add 2 quarts of K-88 Admix (replacing 2 quarts water) per bag of material.
- Trowel or spray apply material to a uniform minimum of 3/16 inch, to completely cover the lath.

Structural Skin®

Curing
- Keep damp with a fine mist of water for 24 hours.
- Protect from direct sunlight, wind, rain and frost during curing period.

Clean Up
- Clean tools and equipment with water immediately after use.
- Cured material must be removed mechanically.

Coverage/Yield
- 45 ft.^{2}/50 lbs. @ 1/8 inch.

Product Handling
Packaging
- 50 lbs. paper bags.

Shelf Life
- 12 months when properly stored.

Storage
- Transport and store in cool, clean, dry conditions in unopened containers.
- High temperature or high humidity will reduce shelf life.

Limitations
- Do not apply unless substrate and ambient temperature can be maintained at a minimum of 40°F for 24 hours. Refer to ACI Cold Weather Application Guidelines.
- Cold mixing water and low temperature will retard set. Hot water and high temperature will accelerate set.
- Protect application from precipitation and high wind for at least 8 hours.
- Do not add more water than specified.
- Do not re-temper as this will damage the fiber glass reinforcing.
- Avoid overworking material during placement.
- Over mixing will cause damage to the fiber glass reinforcing.

Health and Safety
- Product is alkaline.
- Do not ingest.
- Avoid breathing dust.
- Avoid contact with skin and eyes.
- Refer to Safety Data Sheet (SDS) for additional information.

First Aid
- In case of skin contact, wash thoroughly with soap and water.
- For eye contact, flush immediately with a high volume of water for at least 15 minutes and contact a medical professional.
- For respiratory problems, remove person to fresh air.

Disposal
- Dispose of material in accordance with local, state and federal regulations.

Technical Data

Physical state and appearance		Gray or white powder		
Base		Portland cement		
pH	Wet mix	>12		
Water/cement ratio		0.6 – 0.49 with 2 quarts K-88 Admix		
Standard Specification for Packaged, Dry, Combined Materials for Surface Bonding Mortar	ASTM C887	Complies		
Setting time by vicat needle	ASTM C191	Initial 60 minutes – Final 270 minutes		
Durometer hardness	ASTM D2240	60 - 70		
Water penetration and leakage	ASTM E514	100% reduction in leakage		
Carbon-arc weathering	ASTM G152	2000 hours – no effect		
Length change	ASTM C157	300 µstrains @ 28 days		
		7 days	**14 Days**	**28 days**
Compressive strength – psi With 2 quarts of K-88 Admix	ASTM C109	4150 5000	4400 5290	5100 6300
Flexural strength – 3 point loading – psi	ASTM C78			1100
Tensile strength – psi With 2 quarts of K-88 Admix	ASTM C307	400 600	430 600	430 635
Allowable design stress based on gross area of the CMU (IBC) for mortar-less wall construction				
Compressive stress – psi Standard block Ground block Shear Stress		 45 85 10		
Tensile stress in flexure, vertical span - psi		18		

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Conpro One Coat

Trowel or spray applied, fiber reinforced, polymer modified, cement based concentrate.
Refer to Conproco Exterior Wall Systems.

WHERE TO USE

Combines scratch and brown coats of traditional stucco systems into one coat stucco base and finish.

Performance Characteristics

Waterproof barrier
- Passes ASTM E514.

Long term protection
- Density and thickness provide resistance to carbonation.

Durable
- Resistant to weathering action, excellent freeze/thaw stability and abrasion resistance.

Breathability
- Allows moisture to diffuse, preventing damage from moisture build-up in wall system.

Impact resistance
- Significantly more resilient than EIFS.

Economical
- Combines scratch and brown coat to one application.

Smooth finish
- Ready for roller, spray and trowel applied decorative coatings such as, Conpro Stucco, Conpro Lastic and Color Coat.

Surface Preparation

Conproco Impact Wall System
- Remove loose and deteriorated material, laitance, dirt, dust, oil and any surface contaminants that will inhibit proper bond.
- Repair spalled areas, static cracks and voids with Conpro Set or Conpro One Coat.
- Substrate should have open-pored and textured surface.
- Apply Conpro Start where a consolidant is of benefit.
- Saturate substrate with clean water, (saturated surface dry/SSD). Wall should be wet when Conpro One Coat is applied.
- For best results on concrete grind or abrasive blast (CSP 3). Refer to ICRI Surface Preparation Guide 03732 for information about Concrete Surface Preparation (CSP).

Conproco Impact RM Wall System
- Substrates must be structurally sound, sheathing must be firmly fastened and comply with all applicable building codes.
- Place building wrap or air barrier depending upon type of substrate.

Priming
- No priming is required under normal circumstances.

Mixing
- Mechanically mix using a low speed drill (400 - 600 rpm) and mixing paddle or mortar mixer.
- Pour 10 quarts of potable water into a clean mixing vessel and add 110 lbs. of plaster sand (30 - 70 mesh) to each 50 lb. bag of Conpro One Coat.
- Mix continuously for 3 minutes to a uniform, lump-free consistency.
- Add up to 2 pints of additional water if needed.
- Allow to "breathe" for 1 minute and remix for 1 minute. This will improve workability and open time.
- Do not over mix, as this will entrain air and cause damage to the glass fibers.
- For smaller batches, the proper mix ratio is 5 ½ parts powder to 4 ¼ parts sand to 2 ½ parts water.

Application

Conproco Impact (direct applied to concrete and masonry)
- At the time of application, surfaces should be saturated surface dry (SSD) but hold no standing water.
- Trowel or spray apply material to a uniform minimum of between 3/8 inch and a maximum 7/8 inch.
- Apply additional coat of 1/16 - 1/8 inch to achieve a level plane where desirable.

Conproco Impact RM (reinforced with metal lath)
- Place trim accessories (expansion joints, corner bead, etc.) as specified.
- Mechanically fasten self-furring diamond mesh metal lath (complying with ASTM C841 and ASTM C847) within the confines of the panels created by the trim accessories. Make sure to overlap the flanges of the trim accessories.
- Trowel or spray apply material to a uniform minimum of 3/16 inch, to completely cover the lath.
- Apply additional material up to 1 inch thick for added impact resistance.

Curing
- Keep damp with a fine mist of water for 24 hours.
- Protect from direct sunlight, wind, rain and frost during curing period.

Clean Up
- Clean tools and equipment with water immediately after use.
- Cured material must be removed mechanically.

Conpro One Coat

Coverage/Yield

- 50 ft.^{2}/160 lbs. @ 3/8 inch.

Product Handling

Packaging

- 50 lbs. paper bags.

Shelf Life

- 12 months when properly stored.

Storage

- Transport and store in cool, clean, dry conditions in unopened containers.
- High temperature or high humidity will reduce shelf life.

Limitations

- Do not apply unless substrate and ambient temperature can be maintained at a minimum of 40°F for 24 hours. Refer to ACI Cold Weather Application Guidelines.
- Cold mixing water and low temperature will retard set. Hot water and high temperature will accelerate set.
- Protect application from precipitation and high wind for at least 8 hours.
- Do not add more water than specified.
- Avoid overworking material during placement.
- Expansion joints are required. Refer to Exterior Wall System specifications.

Health and Safety

- Product is alkaline.
- Do not ingest.
- Avoid breathing dust.
- Avoid contact with skin and eyes.
- Refer to Safety Data Sheet (SDS) for additional information.

First Aid

- In case of skin contact, wash thoroughly with soap and water.
- For eye contact, flush immediately with a high volume of water for at least 15 minutes and contact a medical professional.
- For respiratory problems, remove person to fresh air.

Disposal

- Dispose of material in accordance with local, state and federal regulations.

Technical Data

Physical state and appearance		Gray powder		
Base		Portland cement		
pH	Wet mix	>12		
Water/cement ratio	Wet mix	0.58		
Dry bulk density	ASTM C188	66 lbs./ft.^{3}		
		7 Days	**14 Days**	**28 Days**
Compressive strength – psi	ASTM C109	1600	1900	2250
Tensile strength - psi	ASTM C307	280	350	420

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Conpro Stucco

Trowel or spray applied, traditional Portland cement stucco. Refer to Conproco Exterior Wall Systems.

WHERE TO USE

For a natural appearing, decorative texture coating on concrete, masonry and curtain wall construction.

Performance Characteristics

Versatile
- Experienced tradesmen can create a wide variety of textures and finishes.

Durable
- Resistant to weathering action, excellent freeze/thaw stability and abrasion resistance.

Breathability
- Allows moisture to diffuse, preventing damage from moisture build-up in wall system.

Integral color
- *Color K-88 Admix* added to gray or white *Conpro Stucco* (depending on color choice) provides long lasting color. *Note: Gallant Gray, Dickensian Gray and Navajo Brown require gray stucco.

Color choices
- Available in 14 standard earth tone colors.

Impact resistance
- Significantly more resilient than EIFS.

Surface Preparation

- Remove loose and deteriorated material, laitance, dirt, dust, oil and any surface contaminants that will inhibit proper bond.
- Substrate should have open-pored and textured surface.

Priming

- No priming is required under normal circumstances.

Mixing

- Mechanically mix using a low speed drill (400 - 600 rpm) and mixing paddle or mortar mixer.
- Pour 3.5 - 4 quarts of potable water and 1 quart of *K-88 Admix* or *Color K-88 Admix* into a clean mixing vessel and slowly add all of the powder.
- The proper mix ratio is 4 parts powder to 1 part water to ¼ part K-88 Admix.
- Mix continuously for 3 minutes to a uniform, lump-free consistency.
- Add up to 2 pints of additional water if needed.
- Allow to "breathe" for 1 minute and remix for 1 minute. This will improve workability and open time.
- Do not over mix, as this will entrain excess air.

Application

- At the time of application, surfaces should be saturated surface dry (SSD) but hold no standing water.
- Apply a key coat of *Conpro Stucco*, filling all voids.
- Allow material to take up to thumb-print hard.
- Trowel or spray texture coat.
- Work to break points to avoid cold joints.

Curing

- Keep damp with a fine mist of water for 24 hours.
- Protect from direct sunlight, wind, rain and frost during curing period.

Clean Up

- Clean tools and equipment with water immediately after use.
- Cured material must be removed mechanically.

Conpro Stucco

Coverage/Yield

- 50 ft.^{2}/50 lbs. @ 1/8 inch.

Product Handling

Packaging

- 50 lbs. paper bags.

Shelf Life

- 12 months when properly stored.

Storage

- Transport and store in cool, clean, dry conditions in unopened containers.
- High temperature or high humidity will reduce shelf life.

Limitations

- Do not apply unless substrate and ambient temperature can be maintained at a minimum of 40°F for 24 hours. Refer to ACI Cold Weather Application Guidelines.
- Cold mixing water and low temperature will retard set. Hot water and high temperature will accelerate set.
- Protect application from precipitation and high wind for at least 8 hours.
- Do not add more water than specified.
- Do not re-temper, this will affect color.
- Avoid overworking material during placement.
- Substrate conditions, weather, and rate of hydration will affect final color.

Health and Safety

- Product is alkaline.
- Do not ingest.
- Avoid breathing dust.
- Avoid contact with skin and eyes.
- Refer to Safety Data Sheet (SDS) for additional information.

First Aid

- In case of skin contact, wash thoroughly with soap and water.
- For eye contact, flush immediately with a high volume of water for at least 15 minutes and contact a medical professional.
- For respiratory problems, remove person to fresh air.

Disposal

- Dispose of material in accordance with local, state and federal regulations.

Technical Data

Physical state and appearance		Fine, gray or white powder		
Base		Portland cement		
pH	Wet mix	>12		
Water/cement ratio	Wet mix	0.55		
Density	Wet mix	110 lbs./ft.^{3}		
Setting time by vicat needle	ASTM C191	Initial 60 minutes – Final 285 minutes		
Percent air by volumetric	ASTM C173	5 – 7%		
		7 Days	**14 Days**	**28 Days**
Compressive strength – psi	ASTM C109	2400		3000
Tensile strength - psi	ASTM C307	300	395	460

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K-88 Admix

100% acrylic admixture for cementitious materials. Improve strength, durability, bond and curing.

WHERE TO USE
Structural Skin®, Conpro Stucco, Foundation Coat, ProMasonry Decor Seal, Plastermix, and mortar.

Performance Characteristics

Promotes curing

- Reduces need to moist cure materials in conditions up to 85°F. Reduces shrinkage induced cracking.

Increases bond

- Promotes chemical adhesion to substrate.

Durability

- Increases compressive and tensile strengths. Increases freeze/thaw resistance.

Water resistance

- Increases density and improves resistance to water entry.

Surface Preparation

- *K-88 Admix* is an admixture. Refer to the specific product bulletin for material to be used.

Priming

- Follow the instructions of the material to which K-88 Admix will be added.

Mixing

- Stir or shake container gently and pour into mix at the desired addition rate.

Application

- *Structural Skin®*
  1 quart/50 lbs. bag for curing.
  2 quarts/50 lbs. bag for Exterior Wall Systems.
- *Conpro Stucco*
  1 quart/50 lbs. bag.
- *Plastermix*
  1 quart/50 lbs. bag.
- Field mix stucco
  1 part *K-88 Admix* to 2 parts water.
- Cement parge coat
  1 part *K-88 Admix* to 2 parts water.
- Mortar and concrete
  1 part *K-88 Admix* to 2 parts water.

Curing

- Follow the instructions of the Conproco product to which *K-88 Admix* is added.

Clean Up

- Clean tools and equipment with water.

K-88 Admix

Coverage/Yield

- Refer to Application

Product Handling

Packaging

- Quart, 1, 5 and 55 gallon containers.

Shelf Life

- 18 months in unopened containers.

Storage

- Protect from freezing.
- Transport and store in cool, clean, dry conditions in unopened containers.
- High temperature will reduce shelf life.

Limitations

- Do not apply if temperature of substrate is below 45°F.
- Do not apply if ambient temperature is below 45°F.
- Do not re-temper mixes modified with *K-88 Admix*.

Health and Safety

- Product is alkaline.
- Avoid contact with skin and eyes.
- Avoid breathing vapors.
- Refer to Safety Data Sheet (SDS) for additional information.

First Aid

- In case of skin contact, wash thoroughly with soap and water.
- For eye contact, flush immediately with a high volume of water for at least 15 minutes and contact a medical professional.
- For respiratory problems, remove person to fresh air.
- If respiratory difficulty persists, contact a medical professional.

Disposal

- Dispose of material in accordance with local, state and federal regulations.

Technical Data

Physical state and appearance		Milky liquid		
Base		Aqueous		
Polymer		100% acrylic		
Odor		Ammoniacal		
pH		>8		
Percent solids by weight		27%		
Density of liquid coatings	ASTM D1475	8.4 lbs./gal.		
Results typical for 3/4 -3 inch mix		**7 Days**	**14 Days**	**28 Days**
Compressive strength	ASTM C109			
Design mix without K-88 Admix – psi		2725	3375	3725
Design mix with K-88 Admix – psi		3400	4150	4700
Percent increase - %		25	23	26
Tensile strength	ASTM C307			
Design mix without K-88 Admix – psi		95	360	360
Design mix with K-88 Admix – psi		385	390	400
Percent increase - %		30	8	11

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Color K-88 Admix

100% acrylic admixture for cementitious materials, formulated to provide color.

WHERE TO USE
White Conpro Stucco, to obtain Masonry Series Colors, refer to Conproco Product & Color Selection Guide*.

Performance Characteristics

Colorfast
- Provides excellent dispersion of color through mix.

Color choices
- Choose from 14 natural earth tone colors.

Promotes curing
- Reduces need to moist cure materials in most cases. Reduces shrinkage induced cracking.

Increases bond
- Promotes chemical adhesion to substrate.

Durability
- Increases compressive and tensile strengths. Increases freeze/thaw resistance.

Water resistance
- Increases density and improves resistance to water entry.

* *Color K-88 Admix* can be used with Conproco products *Structural Skin*, *Plastermix*, and *ProMasonry Decor Seal*, to achieve colors similar, but not identical to *Conpro Stucco*.

Surface Preparation

- *K-88 Admix* is an admixture. Refer to the specific product bulletin for material to be used for surface preparation.

Priming

- Follow the instructions of the material to which *Color K-88 Admix* will be added.

Mixing

- Stir or vigorously shake container and pour complete contents into mix. Ensure that all of the liquid and pigment are emptied from container.

Curing

- Follow the instructions of the Conproco product to which *Color K-88 Admix* is added.

Clean Up

- Clean tools and equipment with water.

Color K-88 Admix

Coverage/Yield

- 1 quart per 50 lbs. bag of *Conproco Stucco*.

Product Handling

Packaging

- Quart containers.

Shelf Life

- 18 months in unopened containers.

Storage

- Protect from freezing.
- Transport and store in cool, clean, dry conditions in unopened containers.
- High temperature will reduce shelf life.

Limitations

- Do not apply if temperature of substrate is below 45°F.
- Do not apply if ambient temperature is below 45°F.
- Do not re-temper mixes modified with Color K-88 Admix.

Health and Safety

- Do not ingest
- Avoid contact with skin and eyes.
- Avoid breathing vapors.
- Refer to Safety Data Sheet (SDS) for additional information.

First Aid

- In case of skin contact, wash thoroughly with soap and water.
- For eye contact, flush immediately with a high volume of water for at least 15 minutes and contact a medical professional.
- For respiratory problems, remove person to fresh air.
- If respiratory difficulty persists, contact a medical professional.

Disposal

- Dispose of material in accordance with local, state and federal regulations.

Technical Data

Physical state and appearance		Colored liquid		
Base		Aqueous		
Polymer		100% acrylic		
Odor		Ammoniacal		
pH		>9.5		
Percent solids by weight	Wet mix	45 - 65% by weight dependent on color		
Density of liquid coatings	ASTM D1475	8.4 lbs./gal.		
		7 Days	**14 Days**	**28 Days**
Compressive strength	ASTM C109			
Design mix without Color K-88 Admix – psi		2725	3375	3725
Design mix with Color K-88 Admix – psi		3400	4150	4700
Percent increase - %		25	23	26
Tensile strength	ASTM C307			
Design mix without Color K-88 Admix – psi		95	360	360
Design mix with Color K-88 Admix – psi		385	390	400
Percent increase - %		30	8	11

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Below Grade Waterproofing

Product	Positive Side	Negative Side
Foundation Coat	✔	
Conpro Super Seal		✔

Product Descriptions

Foundation Coat..... Fiber-reinforced waterproofing and structural coating for dry stacked CMU

Conpro Super Seal (2 Component)..... Capillary/crystalline, cementitious waterproofing resists severe hydrostatic pressure

Foundation Coat

Trowel or spray applied, fiber reinforced, Portland cement based, structural coating.

WHERE TO USE
Permanent positive side waterproofing of below-grade concrete block walls.

Performance Characteristics

Waterproof barrier
- Passes CRD-48 (Resistance to hydrostatic pressure).

Radon barrier
- Stops radon infiltration.

Durable
- Resistant to weathering action, excellent freeze/thaw stability and abrasion resistance.

Breathability
- Allow moisture to diffuse, preventing damage from moisture build-up in wall system.

Structural
- When applied to both sides of dry stacked concrete block to form a complete wall system.

Attractive
- Smooth or textured finish on the above-grade portion of foundation enhances overall appearance. Can be used on interior foundation walls for added protection with a plaster finish.

IRC and IBC approved
- For structural wall system and waterproofing.

Surface Preparation

- Remove loose and deteriorated material, laitance, dirt, dust, oil and any surface contaminants that will inhibit proper bond.
- Repair spalled areas, static cracks and voids with Conpro Set or Foundation Coat.
- Substrate should have open-pored and textured surface.
- Saturate substrate with clean water, (saturated surface dry/SSD). Wall should be wet when Foundation Coat is applied.
- For best results on concrete, grind or abrasive blast (CSP 3). Refer to ICRI Surface Preparation Guide 03732 for information about Concrete Surface Profile (CSP).

Priming

- No priming is required under normal circumstances.

Mixing

- Mechanically mix using a low speed drill (400 - 600 rpm) and mixing paddle or mortar mixer.
- Pour 5-1/4 quarts of potable water into a clean mixing vessel and slowly add all of the powder.
- Mix continuously for 3 minutes to a uniform, lump-free consistency.
- Add up to 1 pint of additional water if needed.
- Allow to "breathe" for 1 minute and remix for 1 minute. This will improve workability and open time.
- Do not over mix, as this will entrain air and cause damage to the glass fibers.
- Replace 1 quart of water with 1 quart of K-88 Admix when applying additional coats.

Application

- At the time of application, surfaces should be saturated surface dry (SSD) but hold no standing water.
- Trowel or spray apply material to a uniform minimum of 1/8 inch.
- Cove material at junction of wall and slab to prevent water entry.
- Apply with a vertical motion and finish with a horizontal motion.

Curing

- Keep damp with a fine mist of water for 24 hours.
- Protect from direct sunlight, wind, rain and frost during curing period.

Clean Up

- Clean tools and equipment with water immediately after use.
- Cured material must be removed mechanically.

Foundation Coat

Coverage/Yield

- 50 ft.²/50 lbs. @1/8 inch.

Product Handling

Packaging

- 50 lbs. paper bags.

Shelf Life

- 12 months when properly stored.

Storage

- Transport and store in cool, clean, dry conditions in unopened containers.
- High temperature or high humidity will reduce shelf life.

Limitations

- Do not apply unless substrate and ambient temperature can be maintained at a minimum of 40°F for 24 hours. Refer to ACI Cold Weather Application Guidelines.
- Cold mixing water and low temperature will retard set. Hot water and high temperature will accelerate set.
- Protect application from precipitation and high wind for at least 8 hours.
- Do not add more water than specified.
- Do not re-temper as this will damage the fiber glass reinforcing.
- Avoid overworking material during placement.
- Over mixing will cause damage to the fiber glass reinforcing.

Health and Safety

- Product is alkaline.
- Do not ingest.
- Avoid breathing dust.
- Avoid contact with skin and eyes.
- Refer to Safety Data Sheet (SDS) for additional information.

First Aid

- In case of skin contact, wash thoroughly with soap and water.
- For eye contact, flush immediately with a high volume of water for at least 15 minutes and contact a medical professional.
- For respiratory problems, remove person to fresh air.

Disposal

- Dispose of material in accordance with local, state and federal regulations.

Technical Data

Physical state and appearance		Gray or white powder with glass fibers		
Base		Portland cement		
pH	Wet mix	>12		
Water/cement ratio		0.55		
Setting time by vicat needle	ASTM C191	Initial 60 minutes – Final 270 minutes		
Durometer hardness	ASTM D2240	60 - 70		
Water penetration and leakage	ASTM E514	100% reduction		
Resistance to hydrostatic pressure	CRD-48-73	Passes at 46 ft. (20 psi) maximum of test		
Carbon-arc weathering	ASTM G152	2000 hours – no effect		
Length change	ASTM C157	< 500 µstrains @ 28 days		
		7 days	**14 Days**	**28 days**
Compressive strength – psi With 2 quarts of K-88 Admix	ASTM C109	3325 5550	3500 6050	4240 6490
Tensile strength - psi	ASTM C307	560	620	680
Allowable design stress based on gross area of the CMU (IBC)				
Compressive stress – psi Standard block Ground block Shear stress		 45 85 10		
Tensile stress in flexure, vertical span - psi		18		

FOR PROFESSIONAL USE ONLY

Conproco warrants this product for one year from the date of manufacture to be free from manufacturing defects and to meet the technical properties on the current technical data sheet if used as directed within shelf life. User determines suitability of product for use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product, exclusive of labor or cost of labor. January 8, 2016.

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Conpro Super Seal

Spray or brush applied, capillary/crystalline slurry, for positive and negative side waterproofing of concrete structures.

WHERE TO USE

Waterproof concrete tunnels, storage tanks, foundations, wastewater storage and other demanding applications.

Performance Characteristics

Waterproofing

- 2 coat application will withstand 57 ft. hydrostatic pressure.

Permanent

- Non-reversible chemical reaction develops crystalline structure in capillaries that block liquid phase water.

Durable

- Excellent freeze/thaw stability and abrasion resistance.

Very low permeability

- Resistant to deicing salts, chloride, and chemical attack, and environmental pollution.

Radon barrier

- Stops radon infiltration.

Breathability

- Will not cause damage to structure by restricting moisture vapor flow.

Two colors

- Available in white and gray – use in alternate coats to ensure proper coverage.

Surface Preparation

- Remove loose and deteriorated material, laitance, dirt, dust, oil and any surface contaminants that will inhibit proper bond.
- Grind or abrasive blast (CSP 3) concrete to achieve an open-pored surface. This is essential to allow the crystalline structure to grow into the cement capillaries. Refer to ICRI Surface Preparation Guide 03732 for information about Concrete Surface Profile (CSP).
- Stop active leaks with ProMasonry Hydraulic Plug.
- Saturate substrate with clean water, (saturated surface dry/SSD). Wall should be wet when Conpro Super Seal is applied.

Priming

- No priming is required under normal circumstances.

Mixing

- Mechanically mix using a low speed drill (400 - 600 rpm) and mixing paddle or mortar mixer.
- Pour 5 quarts of potable water and 1 container of Conpro Super Seal Admix into a clean mixing vessel and slowly add all of the powder.
- Mix continuously for 3 minutes to a uniform, lump-free, slurry-like consistency.
- Add up to 2 pints of additional water if needed.
- Allow to "breathe" for 1 minute and remix for 1 minute. This will improve workability and open time.
- Do not over mix, as this will entrain excess air.
- Do not re-temper.

Application

Walls

- At the time of application, surfaces should be saturated surface dry (SSD) but hold no standing water.
- Clean and pre-stripe non-structural cracks (up to 1/16 inch) with one 4 inch wide, 50 mils. application of material.
- Dynamic cracks, joints and transitions (wall-to-slab) must be properly detailed with a closed cell backer rod and polyurethane sealant. Refer to SWRI Sealants, The Professionals' Guide.
- Apply 4 - 6 inch wide stripe of material over cured sealant. Embed mesh fabric while material is plastic.
- Apply a 50 mils. coat over the entire surface with a stiff bristle brush or spray.
- Work the first coat into the substrate using a circular or figure 8 pattern to fill all voids and pores. Do not exceed 60 mils. per coat.
- Apply a second coat once the first coat is thumb-print hard.
- For trowel applied applications, reduce the water demand to achieve a mortar-like consistency.

New concrete slabs

- Broadcast *Conpro Super Seal* powder in 2 passes at 90° to each other to ensure uniform coverage of 2-1/4 - 2-1/2 lbs./yd.^{2} (1/4 lbs. per ft.^{2}) during the floating process.
- Mix 1 part *Conpro Super Seal* Admix with 5 parts water.
- Apply mixture uniformly with a low pressure sprayer.
- Finish as specified for concrete finishing.

Curing

Walls

- Mist cure 3 - 4 times per day for 3 days or moist cure with wet burlap and polyethylene for 3 days.
- Protect repair from direct sunlight, wind, rain and frost during curing period.

New concrete slabs

- Dampen with a fine mist of water for 24 hours or moist cure with wet burlap and polyethylene. Alternatively, apply *ProMasonry Cure & Seal*.
- Protect from direct sunlight, wind, rain and frost during curing period.

Clean Up

- Clean tools and equipment with water immediately after use.
- Cured material must be removed mechanically.

Conpro Super Seal

Coverage/Yield

- 150 ft²/50 lbs. @ 50 mils.

Product Handling

Packaging

- 50 lb paper bag and 22 oz. plastic container of Conpro Super Seal Admix.

Shelf Life

- Bag - 12 months when properly stored.
  Admix - 18 months when properly stored.

Storage

- Transport and store in cool, clean, dry conditions in unopened containers.
- High temperature or high humidity will reduce shelf life.
- Protect Admix from freezing.

Limitations

- Do not apply unless substrate and ambient temperature can be maintained at a minimum of 45°F for 24 hours. Refer to ACI Cold Weather Application Guidelines.
- Cold mixing water and low temperature will retard set. Hot water and high temperature will accelerate set.
- Protect application from precipitation and high wind for at least 8 hours.
- Do not add more water than specified.
- Do not apply over active leaks. Treat leaks first with ProMasonry Hydraulic Plug.

Health and Safety

- Product is alkaline.
- Do not ingest.
- Avoid breathing dust.
- Avoid contact with skin and eyes.
- Refer to Safety Data Sheet (SDS) for additional information.

First Aid

- In case of skin contact, wash thoroughly with soap and water.
- For eye contact, flush immediately with a high volume of water for at least 15 minutes and contact a medical professional.
- For respiratory problems, remove person to fresh air.

Disposal

- Dispose of material in accordance with local, state and federal regulations.

Technical Data

Physical state and appearance		Fine, gray or white powder and admixture.		
Base Powder Liquid		 Portland cement Milky, viscous liquid		
pH	Wet mix	>12		
Liquid/cement ratio		0.45		
Density	Wet mix	93 lbs./ft.^{3}		
Density	Hardened	100 lbs./ft.^{3}		
Pot life		20 - 40 minutes		
Durometer hardness	ASTM D2240	80 - 85		
Water penetration and leakage	ASTM E514	100% reduction in leakage		
Resistance to hydrostatic pressure Concrete block	CRD-48-73	57 ft. – 2 coats 103 ft. – 3 coats		
		7 Days	**14 Days**	**28 Days**
Compressive strength - psi	ASTM C109	5775	6125	6350
Tensile strength - psi	ASTM C307	230	420	450

FOR PROFESSIONAL USE ONLY

Conproco warrants this product for one year from the date of manufacture to be free from manufacturing defects and to meet the technical properties on the current technical data sheet if used as directed within shelf life. User determines suitability of product for use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product, exclusive of labor or cost of labor. November 3, 2016.

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TELEPHONE 800.258.3500 • FAX 603.743.5744 • WEB ADDRESS www.conproco.com