

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 *Conpro Plug*.
- Stop weeping water with *Conpro Stop*.
- 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.

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 *Conpro C309 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 ft.²/50 lbs. @ 50 mils.

PRODUCT HANDLING

Packaging

- 50 lbs. multi-wall, poly lined 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 *Conpro Plug* or *Conpro Stop*.

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		Fine, gray or white powder and admixture
Base		
Powder		Portland cement
Liquid		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 Corp. warrants this product for one year from date of installation 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 2005.

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