

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.

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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	Portland cement			
Liquid	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
Compressive strength – psi	ASTM C109	2500	6430	7275
Tensile strength – psi	ASTM C307			600

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. February 4, 2021.

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