

# Conpro One Shot

**Trowel applied,  
single component, polymer modified,  
Portland cement material for  
horizontal applications up to 1/2 inch.  
Can be extended with 3/8 inch aggregate.**

**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 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

### 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.

### 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 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 excess air.

## APPLICATION

- 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.
- For applications over 1/2 inch, add up to 30 lbs. of 3/8 inch aggregate. 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 *Conpro C309 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.

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## COVERAGE/YIELD

- 0.42 ft.<sup>3</sup>/50 lbs.
- 0.65 ft.<sup>3</sup> when extended with 30 lbs. of 3/8 inch aggregate.

## PRODUCT HANDLING

### Packaging

- 50 lbs. multi-wall, poly lined 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 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 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 powder			
Base		Portland cement			
pH	Wet mix	>12			
Aggregate type		Sharp quartz silica			
Water/cement ratio		0.48*			
Density	Wet mix	110 lbs./ft. <sup>3</sup>			
Setting time by vicat needle	ASTM C191	Initial 200 minutes – Final 245 minutes			
Percent air by volumetric	ASTM C173	6%			
Resistance to deicing chemicals under freeze/thaw	ASTM C672	50 cycles – 0 rating – no effect			
Length change	ASTM C157	< 1000 µstrains @ 28 days – air cure < 500 µstrains @ 28 days – wet cure			
Slant shear bond strength – epoxy	ASTM C882	1500 psi – without slurry coat 2000 psi – with slurry coat			
		<b>1 Day</b> <b>7 Days</b> <b>14 Days</b> <b>28 Days</b>			
Compressive strength – psi	ASTM C109	2500	6250	6560	7350
Flexural strength – 3 point loading – psi	ASTM C78				1010
Tensile strength – psi	ASTM C307		600	640	740

\*Test run using 3 quarts water per 50 lbs. bag of Conpro One Shot.

### 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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