CONPRO ONE SHOT 2C

Two component cementitious mortar for horizontal applications

PRODUCT NAME

Tenon® Conproco® Conpro One Shot 2C

MANUFACTURER

TCC Materials®
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PRODUCT DESCRIPTION

Tenon® Conproco® Conpro One Shot 2C is a trowel or pump applied, two component, polymer modified, Portland cement material for horizontal applications up to ½ inch.

Features & Benefits

- Maintains integrity of repair, resists cracking.
- Thermal compatibility - prevents delamination due to temperature change.
- Resistant to weathering action, excellent freeze/thaw stability and abrasion resistance.
- Resistant to deicing salts, carbo-nation, chloride, and chemical attack.
- Abrasion resistant - Hard, durable surface for long term wear.
- High early strength - Open to foot traffic in 24 hours, pneumatic tire in 72 hours.

Uses

- Balconies
- Parking decks
- Industrial floors
- Loading docks & ramps
- Ideal for large areas

Available Sizes

- 50 lb. bag & 1 gal. Tenon Bonding Additive **(BOM# 115282)**

TECHNICAL DATA

Typical Values	
Physical State & Appearance	Fine, gray powder & milky liquid
Base	Powder: Portland Cement Liquid: Acrylic Polymer
pH (wet mix)	>12
Water / Cement Ratio (wet mix)	0.45
Density (wet mix)	120 lbs. / ft.^{3}
Setting Time by Vicat Needle (ASTM C191)	Initial: 150 minutes Final: 240 minutes
% Air by Volumetric (ASTM C173)	5%
Length Change (ASTM C157)	< 1,000 µstrains @ 28 days – air cure
Slant Shear Bond Strength – Epoxy (ASTM C882)	1,750 psi
Compressive Strength – psi (ASTM C109)	24 hous: 2,500 7 days: 6,430 psi 14 days: 7,275 psi 28 days: 7,460 psi
Tensile Strength – psi (ASTM C307)	28 days: 600 psi

Coverage

- 50 ft.^{2} / 50 lbs. @ ⅛ inch

INSTALLATION

Preparation

Read all directions before starting work. Proper surface preparation is crucial to achieving a successful application.

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

2. Saw cut edges with a diamond blade at a 90° angle to eliminate feather edging. Avoid polishing the edges as this will inhibit bond.

3. Remove a minimum 1/16 inch of surface (CSP 5) by abrasive blasting, steel shotblasting, scarifying, needle-scaling or high-pressure water.

4. Avoid bruising or micro cracking during surface preparation. Refer to ICRI Surface Preparation Guide 03732.

5. Repair zone must be a minimum of 1/8 inch deep, of simple geometry, with no complex edge conditions.

6. Avoid long narrow repairs; these have a tendency to crack.

7. Apply Tenon Conproco Conpro Start where consolidant is of benefit.

8. Saturate substrate with clean water, (saturated surface dry/SSD), with no standing water during Priming or Application.

Note: It is the responsibility of the installer/applicator to ensure the suitability of the product for its intended use.

Priming

1. Use Tenon Conproco Conpro Primer as a bonding primer. Refer to the individual product technical data bulletin for information.

2. Alternatively, prime the prepared substrate including all edges with a slurry coat of the repair mortar into an SSD substrate. 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

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

Application

Concrete:

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

Wood:

1. Wood substrates must be rigid and properly fastened.
2. Apply Tenon Conproco Conpro Primer as prime coat.
3. Place Conpro One Shot 2C a minimum of ¼ inch to a maximum of ½ inch.
4. 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. Alternatively, apply Tenon Cure & Seal WB.
- 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.

LIMITATIONS & PRECAUTIONS

Limitations

- Do not apply unless substrate and ambient temperature can be maintained at a minimum of 40ºF 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 retemper, 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.
- Do not ingest.
- Avoid breathing dust.
- Avoid contact with skin & eyes.

Safety

READ THE SAFETY DATA SHEET (SDS) BEFORE USING THIS PRODUCT. SDS information is available on our website: tccmaterials.com

- 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.

Cautions

Read complete cautionary information printed on product container prior to use.
This Product Data Sheet has been prepared in good faith on the basis of information available at the time of publication. It is intended to provide users with information about and guidelines for the proper use and application of the covered Tenon® Conproco® brand product(s) under normal environmental and working conditions. Because each project is different, TCC Materials cannot be responsible for the consequences of variations in such conditions, or for unforeseen conditions.

STORAGE & HANDLING

Shelf Life

12 months in unopened containers.

Storage Conditions

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

ADMINISTRATIVE INFORMATION

Product Availability & Technical Services

Business hours are 7:30 AM to 4:00 PM CST. To locate Tenon® Conproco® products in your area or contact Technical Services:
Phone: 1.651.688.9116
Email: info@tccmaterials.com

To acquire technical and safety literature, please visit our website at:
Web: tccmaterials.com

Warranty

Seller warrants that its product will conform to and perform in accordance with the product specifications. The foregoing warranty is in lieu of all other warranties, expressed or implied, including, but not limited to those concerning merchantability and fitness for a particular purpose. Because of the difficulty in ascertaining and measuring damages hereunder, it is agreed that Seller's liability to the Buyer shall not exceed the total amount billed and billable to the Buyer for the product hereunder.

TCC MATERIALS

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