MATRIX TR

Cementitious repair mortar for thin repairs

PRODUCT NAME

Tenon® Conproco® Matrix TR

MANUFACTURER

TCC Materials®
2025 Centre Pointe Blvd.
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PRODUCT DESCRIPTION

Tenon® Conproco® Matrix TR is a brush or trowel applied, polymer modified, cementitious repair mortar for thin repairs to terra cotta, natural and cast stone.

Features & Benefits

- Maintains integrity of repair, resists cracking
- Prevents delamination due to temperature change
- Resistant to weathering action, excellent freeze/thaw stability and abrasion resistance.
- Resistant to deicing salts, chloride, and chemical attack, and environmental pollution.
- Breathable - Will not cause damage to structure by
- restricting moisture vapor flow.
- Pre-measured, two component system in one container.
- Available in 11 standard colors and custom color matching.

Uses

- Thin protective repairs to natural stone, cast stone, terra-cotta & concrete

Available Sizes

- 10 lb. kit contains 8.36 lbs. of powder and 2.1 lbs. of Tenon Bonding Additive in plastic pails
- 10 lb (13.6 kg) kit Matrix TR Std/Color **(BOM# 115411)**
- 10 lb (13.6 kg) kit Matrix TR SP/Color **(BOM# 115427)**
- 50 lb (13.6 kg) kit Matrix TR Std/Color **(BOM# 115307)**

TECHNICAL DATA

Typical Values	
Physical State & Appearance	Dry, pigmented powder
Base	Powder: Portland cement Liquid Admix: Acrylic Polymer
pH (Wet Mix)	>12
Water/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
Modulus of Elasticity (ASTM C469)	2.6 X 106
Compressive Strength - psi (ASTM C109)	7 days:4,000 14 days: 5,100 28 days: 6,200
Tensile Strength - psi (ASTM C307)	7 days: 200 14 days: 250 28 days: 350

Coverage

- 10 lb. kit - 20 ft^2 @ $^1/_{16}$ 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. Apply Conpro Start where a consolidant is of benefit.
3. Pre-treat static cracks and voids with Injection Grout where applicable.
4. Saturate substrate with clean water, (saturated surface dry/SSD).
5. Mechanically prepare surface to be open-pored and textured (CSP 3). Refer to ICRI Surface Preparation Guide 03732 for information about surface preparation.
6. No priming is required under normal circumstances.
Note: It is the responsibility of the installer/applicator to ensure the suitability of the product for its intended use.

Mixing

1. Mechanically mix using a low speed drill (400-600 rpm) and mixing paddle.
2. Thoroughly shake Bonding Additive.
3. Mix 3 parts powder to 1 part Bonding Additive.
4. Mix continuously for 3 minutes to a uniform, lump-free consistency.
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

1. At the time of application, surfaces should be saturated surface dry (SSD) but hold no standing water.
2. Apply material with a stiff bristle brush or trowel.
3. Work material into substrate to promote proper adhesion.
4. Coat individual stones (not continuous over mortar joints) a maximum thickness of 1/16 inch.
5. Finish with either a sponge float or trowel.
6. Do not overwork the finish.
7. Product can be sanded after curing a minimum of 24 hours.

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.

LIMITATIONS & PRECAUTIONS

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.
- 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

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

18 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.

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Data sheets are subject to change without notice. For the latest version, please check the product page at www.tccmaterials.com