

**1. PRODUCT NAME**

Tenon® Conproco® Injection Grout

**2. MANUFACTURER**

TCC Materials®

2025 Centre Pointe Blvd.

Mendota Heights, MN 55120 USA

Phone: 651.688.9116

Web: tccmaterials.com

**3. PRODUCT DESCRIPTION**

Tenon® Conproco® Injection Grout is a cementitious crack injection grout/adhesive for the repair of hairline to  $\frac{3}{4}$  inch cracks in masonry and concrete.

**Features and Benefits**

- Low shrinkage; 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
- Low viscosity; excellent flow into cracks and voids
- Will not cause damage to structure by restricting moisture vapor flow
- Single component; easy to mix less than full pail quantities

**When/Where to Use**

Repair and reconstruct brownstone, sandstone, limestone, cast stone, concrete, marble, granite and brick. Intended for use on traditional built masonry structures.

**4. TECHNICAL DATA**

Typical Values • Conproco Impact Wall System	
Viscosity	65 - 75 KU immediate lab
Specific Gravity - Wet	1.8
Volume Ratio	1 part water / 3 parts powder
Weight Ratio	1 lb. water / 2.3 lbs. powder
Compressive Strength (ASTM C109)	7 days: less than or equal to 2,800 psi 28 days: less than or equal to 3,800 psi
Tensile Strength (ASTM C348)	28 days: Greater than or equal to 475 psi

**Available Sizes**

- 30 lb. pail White Base (BOM #115261)
- 30 lb. pail Standard Color Base (BOM #115310)

**Coverage**

- 0.41 ft<sup>3</sup> / 30 lb. pail

**5. 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. It is recommended to use air or water to remove unseen debris from the crack interior prior to injection.
3. Test all cracks and voids for proper flow prior to injection. If potable water will not flow into the crack, the injection grout will not be successful either.
4. Surface temperature and ambient temperature should be greater than 40°F and less than 90°F.

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

**Mixing**

- Mechanically mix using a low speed drill (400-600 rpm) and mixing paddle or mortar mixer.
- Pour 5.5-6.5 quarts of potable water into a clean mixing vessel and slowly add all of the powder. Use a 3:1 powder to water ratio for small batches.
- If using as an adhesive, use a mix preference of the installer.
- Mix only as much material as can be placed in 15-20 minutes.
- Do not over mix, as this will entrain excess air.

**Application**

1. Drill a series of injection ports directly into the center of the crack at a downward (approximately 45° angle) to the substrate. Determine the spacing of the ports by first drilling a single port and filling it with water. This will provide a visual reference as to the space required between each port.
2. After drilling all ports, clean debris from the crack with both compressed air and water.
3. To prevent seepage of grout between ports, seal with a non-staining, easy to remove clay, sealant or caulk.
4. Begin by injecting the lowest port in the crack and work upwards. Move to the next higher port when the grout is visible at that port or when the crack will no longer accept additional material.
5. For cracks more than  $\frac{3}{4}$ " wide place foam backer rod into crack and proceed as described above. Once the grout has hardened, remove backer rod and fill remaining depth with Conproco® ISR-CM, Matrix or Conpro Set repair mortar.

**When using injection grout to fill behind a delaminated substrate:**

1. Determine the spacing required as discussed above. Once this has been determined, lay out a grid of ports spaced equidistant in a vertical and horizontal plane.
2. Inject grout into the lowest line of ports and continue until it flows freely from this port and other ports at the same level.
3. Seal ports using a non-staining clay, sealant or caulk and proceed to the next highest vertical line of ports.
4. Repeat the process until each port will no longer accept additional material.
5. Clean up overflow and seepage immediately with clean water to prevent staining.

**When using as an adhesive to reconstruct broken masonry elements:**

1. Before mixing grout, fit broken pieces together and determine if clamps and/or wedges are needed to secure pieces while they cure. Use dowels or reinforcing pins as determined by an engineer.
2. Saturate interface with water where grout will be applied, while surface is still damp, apply a thin coat ( $\frac{1}{16}$ ") to both sides of the entire interface.
3. Press and hold pieces together. Wipe excess from face with a sponge and clean water.
4. Do not disturb the repair for 24 hours.

## Equipment

- Injection can be achieved by using injection syringes, modified bulk guns, or low pressure grout pumps (less than 30 psi).

**Note:** Strain grout with a fine screen or sieve prior to syringe application.

## Curing

Curing is complete within 24 hours under normal circumstances.

## Clean Up

Clean tools and equipment with water immediately after use. Cured material must be removed mechanically.

## Limitations

1. Do not ingest.
2. Avoid breathing dust.
3. 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](http://tccmaterials.com)

- If swallowed, contact a medical professional immediately.
- Do not induce vomiting unless directed to do so by a qualified medical professional.
- 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 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.

## 6. AVAILABILITY

To locate Tenon products in your area, please contact:

Phone: 651.688.9116

Email: [info@tccmaterials.com](mailto:info@tccmaterials.com)

## 7. 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.

<b>Shelf Life</b>	18 months in unopened containers.
<b>Storage Conditions</b>	Transport and store in cool, clean, dry conditions in unopened containers. High temperature or high humidity will reduce shelf life.
<b>Color</b>	Grayish white
<b>KEEP PRODUCT IN CONTAINER FROM FREEZING</b>	
<b>WARNING: INJURIOUS TO EYES</b>	
<b>KEEP OUT OF REACH OF CHILDREN</b>	



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