

**1. PRODUCT NAME**

Tenon® Conproco® Gun Shot LPS

**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® Gun Shot LPS is a low pressure, wet process spray applied, fiber reinforced, silica fume enhanced, repair mortar with ECB-Tech corrosion protection.

**Features and Benefits**

- Low shrinkage; maintains integrity of repair & resists cracking
- Thermal compatibility; prevents delamination due to temperature change
- Protects reinforcing steel in repair zone and suppresses ring anode effect (Conproco® ECB Tech corrosion protection)
- Resistant to weathering action, excellent freeze/thaw stability and abrasion resistance
- Resistant to deicing salts, carbonation, chloride, and chemical attack
- Place up to 2 inch lifts without rebound
- Improves productivity
- Excellent consolidation around reinforcing steel
- High early strength; minimize out-of-service time
- Wet process minimizes dust and rebound
- Spray or trowel apply

**When/Where to Use**

- High production vertical & overhead concrete repairs

**4. TECHNICAL DATA**

Typical Values • Conproco Gun Shot LPS	
pH	>12
Density (Hardened)	135 lbs./ft. <sup>3</sup>
Setting Time by Vicat Needle (ASTM C191)	Initial: 30 minutes Final: 60 minutes
Percent Air—Pressure Measured	60-70
Resistance to Deicing Chemicals Under Freeze/Thaw (ASTM C672)	50 cycles—no effect
Slough (ACI 506 R90)	None
Rebound (Vertical)	None
Compressive Strength—psi (ASTM C109)	7 days: 7,275 psi 14 days: 7,350 psi 28 days: 7,400 psi

\*Typical performance data representing material vertically applied and cured in field under varying temperatures. Test performed at 2 1/4 quarts of water per bag.

**Available Sizes**

- 50 lb. bag (BOM #115218)

**Coverage**

- 0.41 ft.<sup>3</sup> / 50 lbs.

**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 adhesion.
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. Avoid bruising or micro cracking during surface preparation. Refer to ICRI Surface Preparation Guide 03732.
4. Repair zone must be a minimum of 1/4 inch deep, of simple geometry, with no complex edge conditions.
5. Avoid long narrow repairs; these have a tendency to crack.
6. Apply Conproco® Conpro Start where a consolidant is of benefit.
7. Saturate substrate with clean water, (saturated surface dry/SSD), with no standing water during Priming or Application.
8. Remove concrete from corroded steel and several inches beyond to expose non-corroded steel.
9. Provide a 3/4 inch clearance between the concrete and steel.
10. Damaged reinforcing steel should be inspected by a qualified engineer and appropriate action taken.

**Priming**
**Concrete (only for vertical and horizontal surfaces)**

- Apply Conproco® Conpro Primer, or Conproco® ECB as a bonding primer to all exposed surfaces.
- Refer to the individual product technical data sheet for information

**Reinforcing Steel**

- Remove all scaling rust from reinforcing steel.
- Apply ECB anti-corrosion coating

**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 or mortar mixer
2. Pour 2 1/4 quarts of potable water 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 1 pint of additional 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**

- At the time of application, surfaces should be saturated surface dry (SSD) but hold no standing water. (if not using Conproco Primer or Conproco ECB)

## Application cont.

### Spray Application

1. Material should be applied by an experienced nozzle man using a rotor/stator or peristaltic pump.
2. Follow ACI 506R, for recommendations for wet process shotcrete.
3. Material may be applied in multiple lifts of not less than  $\frac{3}{8}$  inch and no greater than 2 inches.
4. Allow material to stiffen to thumb-print hard before continuing.
5. Scratch (cross-hatch) each lift to prepare surface for subsequent lift.
6. Strike off with straight edge to a uniform plane, close with a trowel or sponge float.

### Trowel Application

1. Force the material against the edges of the repair, working toward the center.
2. Material may be applied in multiple lifts of not less than  $\frac{3}{8}$  inch and no greater than 2 inches.
3. Consolidate each lift and allow to stiffen to thumb-print hard before continuing.
4. Scratch (cross-hatch) each lift to prepare surface for subsequent lift.
5. Finish with a sponge float or trowel.
6. Do not overwork the finish.

### Curing

- Dampen the repair with a fine mist of water for 24 hours or moist cure with wet burlap and polyethylene.
- Alternatively, apply ProMasonry Cure & Seal or 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

1. 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 Applications Guidelines.
2. Cold mixing water and low temperature will retard set. Hot water and high temperature will accelerate set.
3. Protect application from precipitation and high wind for at least 8 hours.
4. Do not add more water than specified, this will lower strengths and cause shrinkage cracking.
5. Avoid overworking material during placement and finishing; this will produce surface (map) cracking.
6. Do not ingest.
7. Avoid breathing dust.
8. 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)

- 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>	12 months when properly stored
<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>	Gray
<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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