

## 1. PRODUCT NAME

Tenon® Conproco® ECB (Electro-Chemical Barrier)

## 2. MANUFACTURER

TCC Materials®  
 2025 Centre Pointe Blvd.  
 Mendota Heights, MN 55120 USA  
 Phone: 1.651.688.9116  
 Web: tccmaterials.com

## 3. PRODUCT DESCRIPTION

Tenon® Conproco® ECB is a brush or spray applied, water-based, single-component, anti-corrosion coating and long open time bonding primer. Conproco ECB is not considered to be a sacrificial coating.

### Features and Benefits

- Barrier coating
- Corrosion inhibitor
- Prevents ion transfer
- Water vapor permeable
- Single component, water based technology
- Orange color clearly defines application area
- Does not produce destructive by-products
- Long open time; up to 30 days on steel before covering, up to 5 days on concrete before covering
- Will not cause delamination due to temperature change
- Spray apply to increase production
- Environmentally friendly; water based, low odor, non flammable

### When/Where to Use

- Protect reinforcing steel
- Metal embedded in concrete against corrosion

## 4. TECHNICAL DATA

Typical Values • Conproco ECB	
Base	Aqueous
pH	9.0 - 9.5 approx.
% solids by weight	58%
Flash point (ASTM D56)	>200°F Seta cc
Density of liquid coatings (ASTM D1475)	8.4 lbs./gal.
Water vapor transmission (ASTM E96)	4 perms @ 10 mils
<b>Protection of embedded rebar (NCHRP 278)</b>	
Uncoated	Corrosion @ 10-12 cycles
Coated with ECB	No corrosion after 50 cycles
Corrosion of embedded steel reinforcement (ASTM G109)	No corrosion after 80 cycles
Resistivity—Wiss, Janney, Elstner procedure	5.3 x 10 <sup>7</sup> ohm/cm

### Typical Values • Conproco ECB cont.

Accelerated weathering—QUV (ASTM G154)	2,000 hours—UV-B cycled with condensation—no effect
Direct tensile strength (ACI 503R)	300 psi
Slant shear bond strength (ASTM C882)	900 psi
VOC	54 g/L

### Available Sizes

- 1 gallon (BOM #115225)
- 5 gallon (BOM #115269)

### Coverage

- Reinforcing Steel 1 gal: 900 LFT of #8 rebar @ 7 mils
- Reinforcing Steel 5 gal: 4500 LFT of #8 rebar @ 7 mils
- Concrete 1 gal: 230 ft.<sup>2</sup> @ 7 mils.
- Concrete 5 gal: 1150 ft.<sup>2</sup> @ 7 mils.

## 5. INSTALLATION

### Preparation

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

### Reinforcing Steel

1. Mechanically remove all scaling rust from metal.
2. Remove concrete around rebar to provide a minimum ¼ inch clearance.
3. Remove concrete along the length of the bar until the exposed bar shows no sign of corrosion activity.
4. No priming is needed as ECB is a priming treatment.

### Concrete

1. Remove loose and deteriorated material, laitance, dirt, dust, oil, and any surface contaminants that will inhibit proper adhesion.
2. No priming is needed as ECB is a priming treatment.

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

### Mixing

1. Stir or mechanically mix using a low speed drill (400-600 rpm) until homogenous

### Application

1. Brush or spray apply a uniform 7 mils. wet to all exposed steel.
2. For spray applications, use a Graco 3500 or equivalent.
3. Brush or spray apply a uniform 7 mils. wet to prepared concrete surface when using as a bonding primer.
4. In severe environments a 2 coat application on steel is recommended.

### Curing

Allow ECB to dry for a minimum of 30 minutes @ 70°F and be dry-to-touch before placing covering material or applying a second coat.

## Clean Up

Clean tools and equipment with water after use.

## Limitations

1. Do not apply unless substrate and ambient temperature can be maintained at a minimum of 40°F for 24 hours.
2. Cure time at 40° is approximately 24 hours. ECB must be dry-to-touch prior to placing covering material.
3. Repair zone should be cleaned of dirt and dust immediately prior to placement of concrete or repair material.
4. Metal to be coated must be free of all scaling rust at the time of application.
5. Avoid contact with eyes.
6. Do not ingest.
7. Should not be considered as a sacrificial coating.

## 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 eye contact, flush immediately with a high volume of water for at least 15 minutes and contact a medical professional.

## 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>	Protect from freezing. Transport and store in cool, dry conditions in unopened containers. High temperature will reduce shelf life.
<b>Color</b>	Orange
<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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