



Technical Data Guide

Polyether Technology

CSI Section No. 07 32 00

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Product Description

TileSecure Roof Tile Adhesive/Sealant is a high performance moisture curing; polyether adhesive/sealant formulated for installation and repair of clay, composite, concrete and slate roof tiles.



Application Performance Standards

1. ASTM C-920, Type S, Grade NS, Class 25, Uses NT, T, M, G, A, and O
2. Federal Spec. TT-S-00230-C Type II, Class A
3. Corps of Engineers CRD-C-541, Type II, Class A
4. Canadian Standards Board CAN 19, 13-M82

Colors:



*Color matching is available in batch quantity only

Regulatory Compliance

1. Conforms to OTC Rule for Sealants & Caulks
2. Meets requirements of California Regs: CARB, SCAQMD and BAAQMD
1. Conforms to California Proposition 65

Packaging

10.1oz (300ml)
24 cartridges/carton, 45 cartons/pallet

Typical Cured Properties

1. Hardness – Shore A, 45+/- 3, ASTM C-661
2. Shear Strength , 400 PSI, ASTM D-1002
3. Service Temperature – Minus 40°F- 200°F

Shelf Life

One year, when stored in appropriate conditions and temperatures.

Coverage per 10.1oz Tube

1. 1/4" x 1/4" bead yields 24.3'
2. 1/4" x 1/2" bead yields 12.2'
3. 1/2" x 1/2" bead yields 6.1'
4. For additional coverage sizes, please visit our website at www.chemlinkinc.com and click on the contractors resources link.

Storage

Store in original, unopened containers in a cool, dry area. Protect unopened containers from heat and direct sunlight. Elevated temperatures will reduce shelf life. TileSecure will not freeze.

Advantages

1. Solvent free, 100% solids, will not shrink
2. Non-slump, applies vertically and overhead
3. 20 minute skin over, resists dirt pick up
4. No outgassing on damp surfaces
5. Very good color stability, will not suntan
6. Paintable within 24 hours (See limitations)
7. Gun grade, no special tools or mixing required
8. Can be applied at temperatures as low as 30°F

Green Standards

1. LEED 2.2 For New Construction and Major Renovations: Low Emitting Materials (Section 4.1) 1 Point
2. NAHB Model Green Home Building Guidelines: 5 Global Impact Points
3. VOC Content at 240° F: Less than 20 grams/liter (including water), ASTM D2369, EPA Method 24



Application Guidelines:

Metal

Prepare all metal to ensure maximum adhesion. Remove all rust, scale and residue by wire brushing to a bright metal sheen. Remove films, loose or inappropriate coatings and oils with an appropriate solvent such as alcohol.

*Chem Link recommends that coated substrates be tested for adhesion prior to starting a project. Please contact Technical Services for specific application guidelines and recommendations.

Concrete

Prior to application, remove any residual contamination by mechanical abrasion, sand blasting or power washing. On green concrete, remove all release agents, friable and loose concrete. Dry all visible and standing water prior to applying TileSecure. Install an appropriate backer rod to avoid three-point bonding.

Wood

Wood should be clean, sound and dry prior to sealant application. Allow treated wood to weather for 6 months prior to application. Remove all coatings and paint (or test for compatibility) to ensure proper bonding. Do not use on fire retardant lumber.

Priming

In most instances, TileSecure will not require a primer. However, certain application or substrates may require a primer to ensure a long lasting bond and weatherproof seal. It is the applicator's responsibility to determine the need for a primer. Chem Link recommends, for any application where prolonged immersion is anticipated, a primer be used for best performance.

Application Instructions

TileSecure is a one-component, ready-to-use material that requires no mixing or preparation. Remove all dirt, oil, loose paint, frost and other contamination from all working surfaces with alcohol. DO NOT USE petroleum solvents such as mineral spirits or xylene. Do not apply below 30°F. Maintain TileSecure at room temperature before applying to ensure easy gunning. Apply with a quality caulk gun. Cut the cartridge nozzle at a 45° angle and to the desired gauge/length. When ready to apply to roof tile products, puncture the inside of the seal to begin applying to tile material. Use a minimum of a ¼" adhesive along the entire surface to be sealed. Clean all tools and spills with alcohol. TileSecure can be painted after 24 hours. TileSecure can be used in vertical or overhead working conditions.

Curing

TileSecure typically skins over in 20-45 min. TileSecure cures through in 3 to 7 days depending upon temperature, humidity and bead thickness. Lower temperatures and humidity prolong cure time. High temperatures accelerate cure time.

Clean-Up

Wet sealant can be removed using a solvent such as isopropyl alcohol. Cured TileSecure can be removed by abrading or scraping the substrate.

Caution

Avoid prolonged contact with skin. Uncured adhesive irritates eyes. In case of contact with eyes, immediately flush with water. Call a physician. Please refer to the MSDS for First Aid information. Most current MSDS can be found at www.chemlinkinc.com.

KEEP OUT OF REACH OF CHILDREN.

Limitations

1. In areas where prolonged chemical exposure is anticipated, contact Technical Services for recommendations.
2. Allow treated wood to "cure" for six months prior to application per APA guidelines.
3. Do not use in areas subject to continuous immersion.
4. Do not store in elevated temperatures.
5. Remove all coatings and sealers before application.
6. Do not apply at temperatures below 30°F
7. Test and evaluate all paints before application. Alkyd and oil based paints may dry slowly.

Read and ensure that the most up-to-date MSDS and technical guidelines are being followed. Proper use and application are the responsibility of the application. Direct any questions to Technical Services at 800-826-1681 prior to starting the project.

IMPORTANT NOTICE

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