AMERICAN COATINGS

UI 5800 UNICOAT POLYSULFIDE EPOXY CAULK & SEALANT

TYPE AND DESCRIPTION

UI 5800 is a two-component polysulfide cured epoxy caulk/sealant. UI 5800 is chemically resistant and has the consistency of putty.

SUGGESTED USES

- To form a flexible corrosion resistant seal on the exterior chime angle of field storage tanks.
- As a concrete expansion joint compound where other sealants may soften or fail due to solvents and chemical attack.

Not Recommended For:

- Immersion in methanol, strong organic acids (eg. acitic acetic acid), or strong organic bases.

RESISTANCE AND PHYSICAL PROPERTIES

UI 5800 exhibits good chemical resistance to:

- Aliphatic hydrocarbons including unleaded gasoline
- Toluene and higher boiling aromatics
- Fuel oil
- Crude Oil
- Butyl Acetate and higher boiling esters
- Ethanol and higher boiling alcohols
- Mineral acids and bases

Maximum Service Temperatures:

375° F (190° C) dry. For immersion service, contact Unicoat Technical Services.

Compatibility with Other Coatings:

Unicoat 5800 may be applied over existing coatings that are free of contamination and are tightly adhered to the substrate. Topcoat Unicoat 5800 only with UI 5900 Polysulfide Coating. Consult Unicoat before topcoating with other products.

SPECIFICATIONS

- Volume solids: 100% Weight Solids: 100%
- Weight per Gallon (mixed): 12.2 Lbs
- Mix Ratio: 1 Part Base to 1 Part Activator
- Activation: Mix 1 part Base with 1 part Activator until a uniform color is achieved. For large areas, use heated plural component spray equipment to maximize pot life.
- Flash Point: 200° F (93° C)
- Gloss: Medium
- Shelf Life: 24 months in protected storage
- Colors (Standard): Gray
- Packaging: 5 gallon containers

POT LIFE

45 minutes @ 77° F

Higher temperatures will greatly decrease pot life and make application by heated plural component equipment necessary.

COVERAGE

Typical exterior chime angle: 6 linear feet/gallon (based on angle resting flush and a 3" foundation lip). Applications where the angle does not rest flush or where the foundation lip is wider will result in significantly lower coverage rate.

Typical concrete joints: 10 linear feet/gallon.

Suggested Film Build:

±2" for expansion joints Will cure in thicker films, but produces significant exothermic heat buildup. Typical chime angle sealant application will range from 60 to 80 mils over the angle to approximately 20 mils at the outer edges.

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APPLICATION INSTRUCTIONS

Conditions:

Do not apply if material, substrate, or ambient temperature is below 40° F (4° C) or above 110° F (43° C). Temperatures below 60° F (15° C) significantly retard cure. Use dehumidification to maintain proper application environment if necessary.

Surface Preparation:

Remove all oil, grease, dirt, or other deleterious material by chemical cleaning or water blasting when needed. For carbon steel atmospheric application and bare or damaged areas, abrasive blast per SSPC-SP 6 (preferred), power tool clean per SSPC-SP 3, or hand tool clean per SSPC-SP 2. For immersion, SSPC-SP 5 white metal blast is required. For concrete and concrete joints or cracks, abrasive blast at reduced pressure to produce a surface resembling medium grade sand paper (preferred). Concrete may also be prepared by removing all oils, coarse concrete, laitance, dirt, etc. using hand or power tools and compressed air. However, this method may result in lower adhesion values. Contact a Unicoat Technical Service Rep for specific recommendations.

Thinning:

Do not thin.

Clean-up Solvents:

TH315 or MEK

Application:

Use a heated plural component spray machine for best results. Small areas may be brushed. UI 5800 may also be applied by pour and trowel.

For heated plural component spray application, the manufacturers listed below are a guide – others may be used. Changes in tip size and pressure may be required to achieve proper application.

- Pump: 45:1 King (Graco) with ability to produce 3000 PSI
- High Pressure filter: 60 mesh
- Fluid hose: 3/8" x 100' max. (Note: If more than 100', use ½" x 100' plus 3/8" x 50' & 25' whip)
- Airless gun: Graco 207945
- Minimum pressure to avoid fingering: 3000 PSI

DRY TIMES

Hours @ recommended DFT & 77°F (25° C) and 50% R.H.

To touch – 4 hours
To recoat – 6 hours minimum, 48 hours max
Hard dry – 24 hours

SAFETY

Consult the Material Safety Data Sheet for this product prior to use.

ADDITIONAL COMMENTS

Use of a penetrating primer under coatings or linings for concrete can be an effective means of minimizing out-gassing. If the use of a penetrating primer is desired, use Unicoat's UI 1000 or UI 2000. Consult a Unicoat Technical Service Rep and the data sheets for these products for recommendations.