

AMERICAN COATINGS

UI 5900 UNICOAT POLYSULFIDE LINING

TYPE AND DESCRIPTION

UI 5900 is a two-component polysulfide cured epoxy elastomeric coating. UI 5900 is chemically resistant yet retains its flexibility. UI 5900 is a 100% solids product consisting of a black base and white activator.

SUGGESTED USES

- Lining the interior of carbon steel tanks & vessels.
- Lining concrete tanks, secondary containment areas, sumps, & trenches.
- A coating for the exterior protection of carbon steel structures, tanks, vessels, & piping.
- A coating for the exterior protection of concrete tanks or structures.
- A flexible coating for protection of multiple substrates such as steel and concrete & steel and fiberglass.
- A surface tolerant coating for atmospheric exposures

Not Recommended For:

- Immersion in methanol, strong organic acids (e.g. acetic acid), or strong organic bases.

RESISTANCE AND PHYSICAL PROPERTIES

UI 5900 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
- Consult a Unicoat Technical Service Representative prior to immersion service

Maximum Service Temperatures:

375° F (190° C) dry.

For immersion service, contact Unicoat Technical Services.

Compatibility with Other Coatings:

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

SPECIFICATIONS

- Volume solids: 100% Weight Solids: 100%
- Weight per Gallon (mixed): 12.6 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

Suggested Film Build:

15 – 20 mils DFT per coat

30 – 40 mils minimum total DFT

Two coats are required for immersion service

All technical advice recommendations are rendered by the seller gratis. They are based on technical data which the seller believes to be reliable. And are intended for use by persons having skill and know-how at their own discretion and risk. Seller assumes no responsibility for results obtained or damages incurred from their use buyer in whole or in part. Such recommendations, technical advice or service are not to be taken as a license to operate under or intended to suggest infringement of any existing patent.

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Coverage:

65 – 80 Ft²/gal. @ 20 – 25 mils
40 – 50 FT²/gal. @ 30 – 40 mils DFT

APPLICATION INSTRUCTIONS

Conditions:

Do not apply if material, substrate, or ambient temperature is below 50° F (10° 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).

(Continued on reverse side)

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:

R-6003 or MEK

Application:

Use a heated plural component spray machine for best results. Small areas may be brushed. UI 5900 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 1/2" 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.

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