

PRODUCT DESCRIPTION

Generic: 100% Solids Two-Component Coating

General Description: DEVMAT 101 coating is a thick-film, 100% solids reinforced, proprietary formulated epoxy-based internal lining designed for corrosion control, and restoration of petroleum storage tanks, tank bottoms and floors, and pipe internals. DEVMAT 101 coating is plural component spray applied from 15-40 mils DFT depending on the extent of bottom plate corrosion, and is flexibilized to reduce coating stress resulting from mechanical and physical forces exerted on the tank floor and/or bottom.

Typical Uses:

- Steel and fiberglass storage tank bottoms
- Large diameter, bulk petroleum tank floors and bottoms
- Riveted or bolted steel tanks and vessels
- Chemical process floors and concrete containment areas
- Pipe Internals

FEATURES

Advantages:

- Resistant to all types of crude oil and refined petroleum products
- Flexible to reduce coating stress caused by "oil canning" effects
- High-build, easy to install monolithic application process (15-40 mils DFT)
- Excellent adhesion to steel, concrete and fiberglass substrates
- Low cured shrinkage
- VOC compliant

SPECIFICATION DATA

Color: Light Gray

Finish: Medium - High Gloss

Reduction Solvent: Do Not Thin

Clean-up Solvent: T-10 Thinner

Weight/Gallon: 11.0 lbs./gal. (1.3 kg/L)

VOC (EPA 24): 0.08 lbs./gal. (10 g/L)

Solids By Volume: 100%

Theoretical Coverage at 1.0 Mil (25 microns) Dry:
1604 sq. ft./gal. (39.3 m²/L at 25 microns)

Recommended Film Thickness: 15-40 mils (375-1000 microns) dry – 15-40 mils (375-1000 microns) wet.

Systems: Please consult the appropriate system guide, the particular job specification or your ICI Paints' Representative for proper systems using this product. Systems must be selected considering the particular environment involved.

Dry Time (ASTM D 1640): At 40 mils (1000 microns) DFT

Substrate Temperature	77°F (25°C)
Minimum Recoat	8-10 hours
Dry Hard	16 hours
Maximum Recoat	16 hours

Ventilation, film thickness, humidity, thinning and other factors can influence the rate of dry.

Warning: The above table provides general guidelines only. Always consult your ICI Paints' Representative for appropriate recoat windows since the maximum aged recoat time of this product may be significantly shortened or lengthened by a variety of conditions, including, but not limited to humidity, surface temperature, and the use of additives or thinners. The above recoat windows may not apply if recoating with a product other than those listed above. If the maximum aged recoat window is exceeded, please consult your ICI Paints' Representative for appropriate recommendations to enhance adhesion. Failure to observe these precautions may result in intercoat delamination.

Shelf Life: Over 12 months at 77°F (25°C) – unopened

Induction: None

Pot Life: 22 minutes @ 100°F (38°C) & 50% R.H.

Mix Ratio: 2 (base): 1 (converter) – see mixing instructions.

PERFORMANCE DATA

Abrasion Resistance: (ASTM D 4060) – Excellent

Adhesion: (ASTM D 4541) – Excellent

Humidity Resistance: (ASTM D 4585) – Excellent

Service Temperature Limits: 250°F (121°C) dry

Chemical Resistance: Excellent resistance to many types of solvents, gasoline, crude oil and other types of refined petroleum products. For additional chemical resistance recommendations, consult your ICI Paints' Representative.

GENERAL SURFACE PREPARATION

Surfaces must be dry, clean, free of oil, grease, form release agents, curing compounds, laitance, other foreign matter and be structurally sound. Remove all loose paint, mortar spatter, mill scale, and rust.

New Surfaces: Steel – New steel surfaces should be initially abrasive blasted to near-white metal surface cleanliness in accordance with SSPC-SP10 or ISO Sa2-1/2. Blast profile on steel should be from 2.5 - 3.5 mils (63-88 microns) in depth and be of a sharp, jagged nature as

opposed to a "peen" pattern (from shot blasting). **Concrete Floors, Poured Concrete** - Cure at least 30 days. Abrasive blast slick, glazed concrete or concrete with laitance.

Previously Painted Surfaces: Must be prepared as under **New Surfaces**.

DIRECTIONS FOR USE

Tinting: Do not tint.

Thinning: Do not thin.

Mixing: Store at moderate temperatures (65°-85°F) prior to product application for ease of handling and mixing. Additional heating may be required and is recommended for spray application. Individual components must be thoroughly mixed prior to proportioning. Avoid storing or placing containers in direct sunlight.

Application: Plural component spray equipment is required for spray application. Small areas and repairs may be done by brush. Application tests have determined that the Graco EXTREME* Mix Plural Component system with two EXTREME 68:1 airless pumps will apply these products with excellent results. For best results the product

should be applied heated to 110°F - 115°F for the Base portion and 130°F - 140°F for the Converter portion, then sprayed using minimum 3800 psi rated 1/2" fluid hose, and an XTR-5 or XTR-7 airless spray gun with HD RAC Tip with a .623 - .625 orifice, or an equivalent pressure rated airless gun and tip package.

Please consult your ICI Paints' Representative for additional detailed application information.

Ventilation: It is very important for the safety of the applicator and the proper performance of the DEVMAT 101 Coating that good ventilation with dry, fresh air be provided in enclosed areas to remove all solvent vapors. Since all solvent vapors are heavier than air, ventilation ducts should reach to the lowest portions of the enclosed areas as well as into any structural pockets. Ventilation should be provided throughout the cure period.

Clean-up: Use T-10 Thinner.

PRECAUTIONS

WARNING! CORROSIVE. CAUSES EYE AND SKIN BURNS. HARMFUL IF INHALED. MAY CAUSE CENTRAL NERVOUS SYSTEM EFFECTS, INCLUDING DIZZINESS, HEADACHE OR NAUSEA. CAUSES RESPIRATORY TRACT IRRITATION. MAY CAUSE ALLERGIC SKIN REACTION. MAY BE HARMFUL IF SWALLOWED OR ABSORBED THROUGH SKIN. OVEREXPOSURE MAY CAUSE LIVER, KIDNEY DAMAGE. USE ONLY WITH ADEQUATE VENTILATION. KEEP OUT OF THE REACH OF CHILDREN. For emergency information call (800) 545-2643. **Note: These warnings encompass the product series. Prior to use, read and follow product-specific MSDS and label information.** If sanding is done, wear a dust mask to avoid breathing of sanding dust. Do not breathe vapors or spray mist. Ensure fresh air entry during application and drying. Avoid contact with eyes and skin. If you experience eye watering, headaches, or dizziness, leave the area. If properly used, a respirator may offer additional protection. Obtain professional advice before using. Close container after each use. **FIRST AID:** In case of skin contact, wash thoroughly with soap and water. If any product remains, gently rub petroleum jelly, vegetable or mineral/baby oil onto skin, then wash again with soap and water. Repeated applications may be needed. Remove contaminated clothing. For eye contact, flush **immediately** with large amounts of water, for at least 15 minutes. **Obtain emergency medical treatment.** If swallowed, **obtain medical treatment immediately.** If inhalation causes physical discomfort, remove to fresh air. If discomfort persists or any breathing difficulty occurs, **get medical help. KEEP FROM FREEZING.**

DS342-1003

SHIPPING

Flash Point: > 200°F (93°C) Setaflash
Packaging: Each component is available in 55 gallon drums (50 gallon fill) and 5 gallon pails.

Shipping Weight: 55 gallon drum - 580 lbs. (264 kg)
5 Gallon Cans - 58 lbs. (26.4 kg)

101B3501/101C9903 (06/06)
Ad Stock #67049

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