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DEVMAT[®] 112

100% Solids Epoxy Coating

Cat. # 112KXXXX

PRODUCT DESCRIPTION

Generic: 100% Solids Two-Component Epoxy

General Description: DEVMAT 112 is a 100% solids, reinforced, low VOC, fast curing advanced epoxy lining.

Typical Uses: Specifically designed for wetting out/reinforcing of 3D E-Glass in the Devmat 3D Plus System when installed for secondary containment monitoring in storage tank bottoms and shells.

SPECIFICATION DATA

Color: Light Transparent Blue (112K4020)

Finish: Medium-High Gloss

Reduction Solvent: Maximum 5% T-5 Thinner

Clean-up Solvent: T-10 Thinner

Weight/Gallon: 9.27 lbs./gal. (1.11 kg/L)

VOC (EPA 24): 0.6 lbs./gal. (72.2 g/L)

Solids By Volume: 100%

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

Recommended Film Thickness: Dependent on thickness/design of 3D E-Glass and project specification.

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

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

Minimum Dry Time (ASTM D 1640):

At 10 mils (250 microns) DFT

Substrate Temperature	50°F(10°C)	70°F(21°C)	80°F(27°C)
To Recoat	25 hours	14 hours	10 hours
Dry Hard	>32 hours	22 hours	18 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 Devoe Coatings Specialist 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 use of accelerators or force curing may shorten the aged recoat of individual coatings. 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 Industrial Coatings Specialist for appropriate recommendations to enhance adhesion. Failure to observe these precautions may result in intercoat delamination.

Shelf Life: Over 24 months at 77°F (25°C) – unopened

Hardness (ASTM D 3363, 7 day cure @ 77°F (25°C): 6H

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

Induction: None

Pot Life: 30 minutes @ 77°F (25°C) & 50% R.H.

FEATURES

Advantages:

- Excellent chemical, solvent and water immersion resistance.
- Resistant to aromatic solvents including xylene, cumene, and aromatic naphthas, all gasolines, including all super unleaded grades and caustic solutions.
- Resistant to crude oil, sweet and sour
- Resistant to fuel oil, brine and condensates.

Note:

Applies only to Devmat 112 when used in the Devmat 3D Plus System topcoated with a suitable Devmat finish coat. Devmat 112 may not be used as a lining by itself.

PERFORMANCE DATA

GENERAL SURFACE PREPARATION

All surfaces must be sound, dry, clean, free of oil, grease, dirt, mildew, form release agents, curing compounds, loose and flaking paint and other foreign substances.

New Surfaces: Steel – Apply DEVMAT 112 Coating directly to abrasive blasted steel. The steel surface must be blasted to near-white metal,

equivalent to SSPC-SP10 or SSI-Sa2½, and have a minimum profile of 2.5 mils (63 microns).

Previously Painted Surfaces: Remove old paint, Prepare surface as described in **New Surfaces**.

DIRECTIONS FOR USE

Tinting: Do not tint.

Thinning: Thinning is not normally required or desired; however, at extreme environmental conditions, small amounts (5% or less by volume) of the solvents on the reverse page can be added depending on local VOC and air quality regulations.

Mixing: DEVMAT 112 Coating is a two-component product supplied in 3 gallon kits which contain the proper ratio of ingredients. If not using plural component spray equipment, the entire contents of each container must be mixed together. Mix the base portion slowly for several minutes. After mixing the base portion, add the converter slowly with continued agitation. After the converter add is complete, continue to mix at 400-600 rpm for 3 to 4 minutes.

Ventilation: Although DEVMAT 112 Coating is solventless, good ventilation with dry air is required for the protection of the applicator,

to prevent condensation and to obtain proper coating performance. Ventilation should be maintained throughout the cure period. Be sure the air in the lowest areas is constantly replaced with fresh, dry air.

Application: Optimum application properties are obtained by using plural component heated systems or airless spray (45:1 compression ratio) with in-line fluid heaters is optional. Hoses should be 1/2" ID minimum. A reversible tip (.023-.031) is suggested. Teflon type packings are recommended and are available from the pump manufacturer. Reversible tips should be used.

Topcoats: Must be topcoated with a suitable tank lining material. Must be topcoated within 72 hours at 70°F to 120°F (21°C – 49°C).

Clean-up: Use T-10 Thinner.

Application Temperatures:

	Material	Surface	Ambient	Humidity
Airless Equipment				
Normal	70-85°F/21-29°C	65-85°F/18-29°C	65-85°F/18-29°C	30-60%
Minimum	55°F/12°C	50°F/10°C	50°F/10°C	0
Maximum	90°F/32°C	110°F/43°C	110°F/43°C	85%
Plural Component				
Normal	110-130°F/43-54°C	65-110°F/18-43°C	65-110°F/18-43°C	30-60%
Minimum	90°F/32°C	50°F/10°C	50°F/10°C	0
Maximum	140°F/60°C	120°F/49°C	120°F/49°C	85%

PRECAUTIONS

WARNING! CORROSIVE. CAUSES EYE AND SKIN BURNS. HARMFUL OR FATAL IF SWALLOWED. ASPIRATION HAZARD-CAN ENTER LUNGS AND CAUSE DAMAGE. HARMFUL IF INHALED. MAY CAUSE CENTRAL NERVOUS SYSTEM EFFECTS, INCLUDING DIZZINESS, HEADACHE OR NAUSEA. CAUSES RESPIRATORY TRACT IRRITATION. MAY CAUSE ALLERGIC SKIN AND RESPIRATORY REACTION. OVEREXPOSURE MAY CAUSE LUNG DAMAGE. USE ONLY WITH ADEQUATE VENTILATION. KEEP OUT OF THE REACH OF CHILDREN. NOTICE: Products in this series contain solvents. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. For emergency information call (800) 545-2643. If sanding is done, wear a dust mask to avoid breathing of sanding dust. Do not breathe vapors or spray mist. 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 off **quickly** with plenty of soap and water, 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. Note: These warnings encompass the product series. Prior to use, read and follow product-specific MSDS and label information.**

DS239-1099

SHIPPING

Freight Classification: Paint
Flash Point: >200°F (93°C)
Packaging: 3 gallon kit (11.36L)
 2 gallons base
 1 gallons converter

Shipping Weight: 3 gallon kit - 34 lbs. (15.5 kg)

112K0036 (12/99)
 Ad Stock #68809B



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