Milamar Coatings, L.L.C.
A CASS Polymers Company

ICO URE Guard Slurry

Product Data Sheet

Product Description

Ure Guard Slurry is a three-part urethane cement flooring material. It is normally applied by a camrake, gauge rake or notched trowel at 3/16", then seeded with silica sand to achieve a minimum thickness of 1/4". **Ure Guard Slurry** differs from **Ure Guard TL** in the type and ratio of fill: liquid (2.7:1 by weight vs. 4:1 for the troweled version) It has similar physical and chemical properties and is suitable for the same harsh environments: withstanding temperatures up to 400°F and most inorganic acids up to 180°F. **Ure Guard Slurry** is easier to apply than the troweled version and is oftentimes the preferred choice on large, open areas where aesthetics are more critical.

Ure Guard Slurry can be applied at temperature ranges from 40°F to 90°F, with cure times as low as 8 hours at higher temperatures. **Ure Guard SL/TL Coating** (a 100% solids aromatic urethane) or a Milamar Novolac Sealer is recommended over the seeded surface to facilitate cleaning.

Product Application

Ure Guard Slurry is particularly recommended in food and beverage plants in areas subjected to extreme thermal shock. It works well where moderately aggressive reagents are used at elevated temperatures (generally 140 to 212°F) or areas seeing elevated temperatures up to 400°F. Examples would include under fryers, ovens, pasteurizers and sterilizers as well as kitchen floors.

Ure Guard Slurry has been found particularly effective in chemical processing areas with very aggressive acids at temperatures 140°F to 180°F. Typical examples would include citrus and lactic-acid production and sugar refining plants.

Chemical Resistance

Please refer to our Chemical Resistance Chart under "**ICO Ure Guard TL**" for exact chemical resistance ratings.

Physical Properties

Tensile Strength, (ASTM D638)	: 2585psi
Tensile Elongation, D638 (unfilled)	: 6.23%
Compressive Strength, C-579	: 4550psi
Hardness, Shore D	: 72
Water Absorption, D-570	: 0.2% in 24 hrs.
Bond Strength to Concrete (D-4541)	: > 400psi (concrete failure)
Flammability (D-635)	: Self extinguishing
Coefficient of Thermal Expansion (D-696)	:1.7 x 10^{-4} per °F
Gardner Impact	: >160 inch pounds

Physical Characteristics

Density	**lbs. /gal.**
Pt. A	8.33
Pt. B	10.33

Viscosity	**cps@ 75°F**
Pt. A	175
Pt. B	170
A&B Mixed	330

Mixing Ratio	**Volume**	**Weight**
Pt A: Pt B	1.05:1	.85:1
Aggregate: Liquid	--	2.7:1

Curing Times @	**40°F**	**60°F**	**80˚F**
Pot Life	15 min	15 min	10 min
Working Time	18 min	15 min	10 min
Hard, Foot Traffic	36 hrs.	12 hrs.	10 hrs.
Hard, Fork Lift	48 hrs.	24 hrs.	12-14 hrs.

Color Availability

In our nine standard colors (dry tint packs included with un-pigmented resin)

Shelf Life

6 months in unopened containers when stored between 60-80˚F.

Packaging and Coverage Rates

2 batch kit: 60SF @ 3/16"

20 batch kit: 600SF @ 3/16"

Drum Kit: 3600SF @ 3/16"

Installation

Please refer to our Application Specs for detailed instructions. Particular care must be taken to follow those instructions precisely to assure proper installation.

1. New concrete should be allowed to cure for a minimum of 14 days. If this is not possible, check with plastic sheet test for rate of moisture evaporation and consult with manufacturer for further instructions.
2. All surfaces to be covered should be mechanically prepped to present a clean sound substrate with a pH of 7.
3. Using a paddle-style mixer, mix Part A and Part B for 30 to 60 seconds, followed by addition of sand and tint and mix until uniform in color and consistency. Immediately dump onto floor and spread.
4. Spread slurry with camrake, gauge rake or notched trowel followed by spike roller or nylon loop roller to level floor. To achieve desired texture, immediately broadcast in suitable size grit (about one pound per SF). Allow to dry.
5. Sand lightly and vacuum off any loose grit.
6. Coat with selected Milamar topcoat at a coverage rate of about 80-100SF per gallon (16 - 20 mils), depending on desired texture.

NOTE: **Failure to follow the above instructions, unless expressly authorized by a Milamar Technical Service Representative, will void material warranty.**

Precautions

1. Very limited working time; pour our immediately.
2. Make sure Part B is kept tightly secured as moisture in air can react with isocyanate. Limited shelf life: 6 months
3. Only use ICO Ure Guard Slurry Part C Filler

LIMITED WARRANTY

Milamar Coatings products are manufactured to be free of defects in material and workmanship in meeting the properties specified on its individual Product Data Sheets. Users and installers of Milamar Coatings products are solely responsible for determining the suitability of the products for specific product applications. Milamar Coatings makes no Warranty or Guarantee, expressed or implied, including warranties of fitness, design compatibility or merchantability, for any particular use and shall have no responsibility or liability, including direct, indirect or consequential damages, due to injury, delay or third party claims for installation or repair. Likewise, Milamar Coating assumes no liability of any nature for products that are adjusted in the field or that do not utilize all specified Milamar Coatings components. Should any Milamar Coatings product be proved to be defective within one year from the date of shipment, Milamar Coatings will, at its sole discretion, either replace the material; issue a credit to the customer's account; or provide a cash refund for the initial, paid purchase price of the material. Potential claims regarding product quality must be received in writing by Milamar Coatings within 30 days of the discovery of such potential defect. This Warranty is exclusive of all other warranties, expressed or implied, and may only be adjusted in writing, signed by an officer of Milamar Coatings, L.L.C.

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