



# ICO URE GUARD SLURRY

## Product Data Sheet

### Product Description

**ICO Ure Guard Slurry** is a three-part, virtually odorless urethane cement flooring material that is normally applied by a notched squeegee or trowel at 3/16" then seeded with silica sand to achieve a minimum thickness of 1/4". It differs from our **Ure Guard TL** material only in the type of fill and the ratio of fill : liquid (2.2:1 by weight vs. 4:1 for the trowelled version) but has similar physical and chemical properties and thus, is suitable for the same harsh environments: withstanding temperatures up to 400°F and most inorganic acids up to 180°F. It is easier to apply than the trowelled version and thus, is oftentimes the preferred choice on large, open areas where aesthetics are more critical.

**ICO Ure Guard Slurry** can be applied at temperature ranges from 40°F to 90°F, with cure times as low as 10 hours at higher temperatures. A top coat of our 100% solids, aromatic urethane coating, **ICO Ure Guard SL/TL Coating**, is recommended over the seeded surface to facilitate cleaning

### Product Application

**ICO Ure Guard Slurry** is particularly recommended in food and beverage plants in areas subjected to extreme thermal shock, 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.

In addition, **Ure Guard Slurry** has been found particularly effective in chemical processing areas seeing very aggressive acids at temperatures 140°F to 180°F. Typical examples would include citrus and lactic-acid production as well as 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        | Bond Strength to Concrete (D-4541)       | : > 400psi (concrete failure)   |
| Tensile Elongation, D638(unfilled) | : 6.23%          | Flammability (D-635)                     | : Self extinguishing            |
| Compressive Strength, C-579        | : 4550psi        | Coefficient of Thermal Expansion (D-696) | : 1.7 x 10 <sup>-4</sup> per °F |
| Hardness, Shore D                  | : 72             | Gardner Impact                           | : >160 inch pounds              |
| Water Absorption, D-570            | : 0.2% in 24 hrs |  |                                 |

### Physical Characteristics

#### Density lbs./gal.

|           |       |
|-----------|-------|
| Pt. A     | 8.1   |
| Pt. B     | 10.35 |
| A&B Mixed | 9.26  |

#### Viscosity cps@ 75°F

|           |     |
|-----------|-----|
| Pt. A     | 175 |
| Pt. B     | 170 |
| A&B Mixed | 330 |

#### Mixing Ratio By Volume By Weight

|                    |       |       |
|--------------------|-------|-------|
| Pt A : Pt B        | 1.3:1 | 1:1   |
| Aggregate : Liquid | 1:1   | 2.2:1 |

#### 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 unpigmented resin)

### Shelf Life

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

### Packaging and Coverage Rates

|            |                |
|------------|----------------|
| Basic Kit: | 40SF @ 3/16"   |
| Bulk Pack: | 400SF @ 3/16"  |
| Drum Kit:  | 4000SF @ 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 28 days. If this is not possible, then check with plastic sheet test for rate of moisture evaporation, then consult with manufacturer for further instruction
2. All surfaces to be covered should be mechanically prepped to present a clean sound substrate with a pH of 7.
3. Priming is not essential; however, it is advisable to apply **ICO Primer LV (or LVFC)** over new concrete (less than 28 day cure). Allow to dry tack free.
4. 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.
5. Lightly trowel to smooth out material, followed by spike rolling to level floor. Then, to achieve desired texture immediately broadcast in suitable size grit (about one pound per SF) Allow to dry.
6. Sand lightly and vacuum off any loose grit.
7. Coat with **ICO Ure Guard SL/TL Coating** 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 our material warranty.**

## **Precautions**

1. **Very limited working time; pour our immediately.**
2. **Make sure Part B's are kept tightly secured as moisture in air can react with isocyanate. Limited shelf life: 6 months**
3. **Only use ICO Ure Guard Slurry Filler, 41lb bag.**

## **Product Specification**

The specified area shall receive an application of **ICO Ure Guard Slurry** as supplied by **Milamar Coatings LLC. of Oklahoma City, Oklahoma**. The material shall be installed by precisely following the manufacturer's published recommendations pertaining to surface preparation, mixing and application. The material shall be a low odor, three-part urethane cement that can be applied in any thickness in a single pass down to 3/16". The overlayment shall have a Shore D hardness of 72 and a tensile elongation of 6.3% with a tensile strength of 2585psi (as measured under ASTM D638) and a compressive strength of 4550psi (ASTM C-579).

The data statements and recommendations set forth in this product information sheet are based on testing, research and other development work which has been carefully conducted by us, and we believe such data. Statements and recommendations will serve as reliable guidelines. However, this product is subject to numerable uses under varying conditions over which we have no control, and accordingly we do NOT warrant that this product is suitable for any particular use. Users are advised to test the product in advance to make certain it is suitable for their particular production conditions and particular use or uses.

### **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, express 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 Coatings 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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