



ICO-URE GUARD SL/TL COATING

Product Data Sheet

Product Description

ICO Ure Guard SL/TL Coating is a two-part, aromatic urethane coating especially designed for coating over our urethane cement slurry system, **ICO Ure Guard Slurry**, or our trowelled urethane cement system, **ICO Ure Guard TL**. An odorless material with zero VOC's, it can be applied by roller or spray, 5 to 8 mils DFT on a smooth surface and up to 20 mils DFT on seeded surfaces. While not having the identical chemical resistance as the urethane cements, **ICO Ure Guard SL/TL Coating** possesses excellent chemical resistance to a wide variety of acids and bases and is the top coat of choice whenever our urethane cements are applied.

Note that **ICO Ure Guard SL/TL**, as an aromatic-based urethane, will not have the same color stability and UV protection as our 100% solids aliphatic urethane coating **ICO Ure Guard 100**.

The selection of top coat for our urethane cements must be determined by the chemicals present as well as the standards of aesthetics for the floor finish desired by the customers. Contact **ICO Technical Services** for specific recommendations

Product Applications

ICO Ure Guard SL/TL Coating is particularly designed for food environments where a higher gloss, easier to clean surface is desired. The as-trowelled urethane cement, **ICO Ure Guard TL**, dries to a dull finish. If this is objectionable, then application of one or two coats of the coating is recommended. In the case of our urethane cement slurry, **ICO Ure Guard Slurry**, which is seeded to excess thereby leaving a virtually uncleanable surface, one or two coats (depending on the desired finished texture) of **ICO Ure Guard SL/TL Coating** is the preferred choice.

Chemical Resistance

The chemical resistance of the **ICO Ure Guard SL/TL Coating** is similar, though not identical to our urethane cements. A partial listing of chemicals tested and ratings follows:

Acetic Acid – 10% & 30% - R	Formaldehyde – R	Hydrogen Peroxide, 50% - R	Nitric Acid, 10% & 30% - R	Styrene - NR
Acetic Anhydride – NR	Chromic Acid – R*	Hydrochloric Acid, conc.- R	Nitric Acid, 50% - OS	Sulfuric Acid, 80% - R
Acrylonitrile – NR	Citric Acid, Conc. – R*	Jet Fuel – R	Perchloroethylene – NR	Sulfuric Acid, 98% - NR
Ammonium Hydroxide – R*	Copper Chloride – R	Lactic Acid,80% - R	Phenol – NR	Trichloroethane(1-1-1) - NR
Aniline – NR	Diesel Fuel – R	Maleic Acid - R	Phosphoric Acid,85% - R	1-1-2 Trichloroethylene – R
Bleach – R	Ethylene Glycol - R	Methanol – NR	Potassium Hydroxide - R*	1-2-2 Trifloroethane - R
Brake Fluid – OS	Ferric Chloride – R	Methyl Methacrylate – NR	Skydrol - NR	Urea - R
Calcium Chloride – R	Hydrobromic Acid – R	N-Methyl Pyrolidine – NR	Sodium Hydroxide – R*	

NOTES: **R** – recommended (at least 7 day immersion); **OS** – occasional spillage (up to 24 hour immersion); **NR** – not recommended (attack within 24 hours); * - stained)

Physical Properties

Tensile Strength (ASTM D-638) : 980psi	Tensile Elongation (D-638) : 48%
Hardness Shore D(D-2240) : 62	Taber Abrasion (D-1044) CS17 wheel, 1000g, 1000 cycles : 90mg loss
Adhesion to Concrete : >400psi (Cohesive failure)	60 degree gloss : 80

Physical Characteristics (all data for Gray 101)

Mix Ratios	By Vol	By Wt	Curing Times @	40°F	60°F	80°F
Pt A ; Pt B	3.36 :1	3:1	Pot Life	18min	15min	10min
			Working Time	20min	18min	10min
Viscosity @ 77°F,cps	Density, lbs/gal		Tack Free	20hrs	12hrs	8hrs
Pt A : 3500	Pt A: 9.3		Hard, Foot Traffic	32hrs	24hrs	20hrs
Pt B : 170	Pt B: 10.35		Hard, Truck Traffic	42hrs	30hrs	24hrs
A & B Mixed: 2000	A & B Mixed: 9.5					

Color Availability

All our standard colors

Shelf Life

6 months in unopened containers if stored at 60 - 80°F

Packaging and Coverage Rates (at 10 mils)

4 gallon kit	: 640SF
20 gallon kit	: 3200SF
100 gallon kit	: 16,000SF

Installation Procedures

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

1. Mix Part A first for 30 seconds or so with a low speed (<750rpm) jiffy style mixer, then add Part B in correct proportion and mix for another 30 seconds or so or until uniform in appearance.
2. Empty entire contents onto floor in a ribbon fashion, spread to desired coverage (see below) with a notched squeegee, then back-roll with a fine nap (1/4" to 3/8) adhesive type roller.
3. Recoat within 24 hours at 70°F. If that time exceeded, lightly sand prior to recoating.

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

Precautions

1. Apply only between 40° and 90°F and at least 5 degrees above the dew point.
2. Particularly fast reacting material – make sure sufficient manpower available for installation.
3. On smooth surfaces, do not apply greater than 8mils (200SF/gal). Do not apply greater than 5 mils (300SF/gal) if RH > 50%
4. Apply by fine nap roller only, even on vertical surfaces. Do not brush on unless back-rolling afterwards, as brushed material susceptible to color float

Product Specifications

The specified area shall receive an application of **ICO Ure Guard SL/TL Coating** as manufactured by **Milamar Coatings LLC. of Oklahoma City, Oklahoma**. The system shall be installed by precisely following the manufacturer's published recommendations pertaining to surface preparation, mixing, application and curing times. The material shall be a solvent free, odor free, 100% solids, two-part aromatic urethane coating that can be applied up to 8 mils per coat on smooth surfaces. It shall have a tensile strength of 980psi as measured under ASTM D-638 and a tensile elongation of 48%. It shall be resistant to a wide variety of acids and bases for at least 7 days, including 80% sulfuric, 37% hydrochloric acid, 30% nitric, 80% lactic acid, 50% hydrogen peroxide and 50% sodium hydroxide.

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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