



ICO URE GUARD TL

Product Data Sheet

Product Description

ICO Ure Guard TL is a three-part, virtually odorless urethane cement flooring material designed to withstand some of industry's harshest conditions. It has superior high temperature properties compared to epoxies, withstanding splash and spills of hot oils up to 400°F. It also has excellent chemical resistance to inorganic acids up to 180°F. It is a "resin-rich" system that is normally trowelled to one quarter inch thickness and is totally impervious to liquid penetration without need of a top coat. **ICO Ure Guard TL** has excellent chemical resistance to most standard CIP cleaners, as well as most inorganic acids. If better gloss is needed, then a top coat of our 100% solids, aromatic urethane, **ICO Ure Guard SL/TL Coating**, or one of our higher chemical resistant epoxy coatings, is recommended.

ICO Ure Guard TL is a single step system applied at temperatures from 40° to 90°F, so long as the substrate temperature is at least 5 degrees above the dew point. Cure times are as low as 12 hours at ambient conditions. A special fast cure version, **ICO Ure Guard TL FC** is available when faster cure times are needed. Cure times are listed in the table below.

Product Application

ICO Ure Guard TL is particularly recommended in such harsh food environments as below ovens, under fryers or sterilizers, where temperatures can be as high as 400°F. It provides excellent protection from steam cleaning.

In addition to food and beverage applications, **ICO Ure Guard TL** applied at 1/4" thickness provides excellent long term protection in chemical processing areas where high concentrations of inorganic acids are present at elevated temperatures (140° to 180°F). Examples include lactic and citrus acid manufacturing facilities, as well as sugar processing plants.

Chemical Resistance

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

Physical Properties

Tensile Strength, ASTM D638	: 2585psi	Bond Strength to Concrete	: >400psi(concrete failure)
Tensile Elongation, D638	: 6.3%	Flammability, D-635	: self-extinguishing
Compressive Strength, C-579	: 5100psi	Coefficient Of Thermal Expansion,D696	: 1.7 x 10-4 per ° F
Hardness, Shore D	: 75	Gardner Impact	: >160 inch pounds
Water Absorption, D-570	: 0.2% in 24 hours		

Physical Characteristics

			Curing Times @			
			40°F	60°F	80°F	
Density	lbs./gal.		ICO Ure Guard TL			
Pt. A	8.3		Pot Life	20 min	20 min	10 min
Pt. B	10.35		Working Time	20 min	15-18 min	10-12 min
A&B Mixed	9.3		Hard, Foot Traffic	36 hrs	12 hrs	8 hrs
Viscosity	cps@ 75°F		Hard, Fork Lift	48 hrs	16 hrs	10 hrs
Pt. A	2000		ICO Ure Guard TL FC			
Pt. B	170		Pot Life	8 min	6 min	4 min
A&B Mixed	700		Working Time	10 min	8 min	6 min
Mixing Ratio	By Volume	By Weight	Hard, Foot Traffic	15 hrs	6 hrs	3 hrs
Pt A : Pt B	1.3:1	1.1:1	Hard, Fork Lift	18 hrs	7 hrs	4 hrs
Aggregate : Liquid	2:1	4:1				

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 : 27SF @ 1/4"
 Bulk Pack : 270SF @ 1/4"
 Drum Kit: 2700SF @ 1/4"

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, mix part A and Part B at 30 to 60 seconds, then add **ICO Ure Guard TL Fill** and dry tint and mix until uniform in color and consistency. Pour out of bucket immediately and spread with screed bar or screed box to ¼"
5. Lightly trowel to close up mix. You can use a fine nap, adhesive roller moistened with mineral spirits to help remove trowel marks, close up surface and bring resin to surface. For anti-slip texture, broadcast in suitable grit into still wet surface.

NOTE: Failure to follow the above instructions, unless expressly authorized by an ICO Technical Service Representative, will void our material warranty.

Precautions

1. **Limited working times; after mixing, immediately pour out of bucket and spread.**
2. **Dries to a matte finish. If this is objectionable, apply on a top coat of ICO Ure Guard SL/TL Coating or one of our epoxy top coats**
3. **Make sure Part B's are kept tightly secured as moisture in air can react with isocyanate. Limited shelf life: 6 months.**
4. **Must use mineral spirits for back rolling, not IPA**

Product Specification

The specified area shall receive an application of **ICO Ure Guard TL** as supplied by **Milamar Coatings LLC, 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 virtually odorless, three-part trowel-applied urethane floor coating. The film hardness shall be a Shore D hardness of 75 and a Gardner Impact Strength greater than 160 inch pounds. The resin shall have a minimum tensile elongation of 6.3% and the tensile strength, as measured by ASTM D638, shall be 2585psi for the filled system.

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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