

## ICO URE GUARD TL

### 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.

### 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

**Density**    lbs./gal.

Pt. A            8.3

Pt. B            10.35

A&B Mixed    9.3

**Viscosity**    cps @ 75°F

Pt. A            2000

Pt. B            170

A&B Mixed    700

**Mixing Ratio**

By Volume

By Weight

Pt A : Pt B      1.3:1

1.1:1

Aggregate : Liquid    2:1                    4:1

**Curing Times @  
ICO Ure Guard TL**

	<u>40°F</u>	<u>60°F</u>	<u>80°F</u>
Pot Life	20 min	20 min	10 min
Working Time	20 min	15-18 min	10-12 min
Hard, Foot Traffic	36 hrs	12 hrs	8 hrs
Hard, Fork Lift	48 hrs	16 hrs	10 hrs

**ICO Ure Guard TL FC**

Pot Life	8 min	6 min	4 min
Working Time	10 min	8 min	6 min
Hard, Foot Traffic	15 hrs	6 hrs	3 hrs
Hard, Fork Lift	18 hrs	7 hrs	4 hrs

### 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.

### 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 **International Coatings, Franklin Park, Illinois**. 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.

## **Mission Statement**

Our mission is to provide our customers the highest possible quality products and services and by so doing, build long term relationship based on mutual trust and respect.

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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.

**WARRANTY** - All products manufactured by us are warranted to be first class material and free from defects in material and workmanship.

Liability under this warranty is limited to the net purchase price of any such products proven defective or, at our option, to the repair or replacement of said products upon their return to us transportation prepaid. All claims hereunder on defective products must be made in writing within 30 days after the receipt of such products in your plant and prior to further processing or combining with other materials and products. WE MAKE NO WARRANTY, EXPRESS OR IMPLIED, AS TO THE SUITABILITY OF ANY OF OUR PRODUCTS FOR ANY PARTICULAR USE, AND WE SHALL NOT BE SUBJECT TO LIABILITY FROM ANY DAMAGES RESULTING FROM THEIR USE IN OPERATIONS NOT UNDER OUR DIRECT CONTROL.

THIS WARRANTY IS EXCLUSIVE OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, AND NO REPRESENTATIVE OF OURS OR ANY OTHER PERSON IS AUTHORIZED TO ASSUME FOR US ANY OTHER LIABILITY IN CONNECTION WITH THE SALE OF OUR PRODUCTS.

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