

## ICO-URE GUARD SL/TL COATING

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

**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 unless otherwise noted)

Mix Ratios	By Vol	By Wt	Curing Times @	45°F	65°F	85°F
Pt A ; Pt B	2.15 :1	1.75:1	Pot Life	13min	13min	9min
Dark Gray Pt A ; Pt B	2.74:1	2.5:1	Working Time	15min	12min	10min
<b>Viscosity @ 77°F,cps</b>	<b>Density, lbs/gal</b>		Tack Free	12hrs	7hrs	4hrs
Pt A : 1300	Pt A: 8.5		Hard, Foot Traffic	18hrs	12hrs	8hrs
Pt B : 170	Pt B: 10.35		Hard, Truck Traffic	24hrs	15hrs	10hrs
A & B Mixed: 750	A & B Mixed: 9.1					

### Color Availability

All our standard colors

### Shelf Life

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

### Packaging and Coverage Rates (at 20 mils)

4 gallon kit	: 320SF
20 gallon kit	: 1600SF
100 gallon kit	: 8000SF

## 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. **Let mix stand for a minimum of three (3) minutes.**
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..

Failure to follow the above instructions, unless expressly authorized by an ICO 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. Coatings must sit for 3 minutes after mixing, prior to application to ensure color uniformity.
3. Particularly fast reacting material – make sure sufficient manpower available for installation.
4. On smooth surfaces, do not apply greater than 8mils (200SF/gal), depending on relative humidity.

## Product Specifications

The specified area shall receive an application of **ICO Ure Guard SL/TL Coating** as manufactured by **International Coatings, Franklin Park, IL**. 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 5 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.

## Mission Statement

Our mission is to provide our customers the highest possible quality products and services and by so doing, build long term relationships 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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