

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, particularly in constant service over 212°F or over 180°F in highly acidic environments. 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 and stain resistance are needed, then a top coat of our 100% solids, aliphatic urethane, **ICO Ure Guard 100**, can be applied.

ICO Ure Guard TL can be applied at temperature ranges from 40°F to 90°F, so long as the substrate temperature is at least 5 degrees below the dew point. Cure times are as low as 10 hours at ambient conditions. It is approximately a 1:1 mix, Part A:Part B, and is available in basic, pre-measured kits or bulk packs in all of our standard colors. It does not require a primer except in damp conditions, when use of our epoxy primer, **ICO Primer LV**, is recommended

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	: TBD
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	1.1:1	0.9:1
Aggregate : Liquid	2:1	4:1

Curing Times @ 40°F 60°F 80°F

Pot Life	20 min	20 min	10 min
Working Time	20 min	15-18 min	10-12 min
Hard, Foot Traffic	60 hrs	36 hrs	8 hrs
Hard, Fork Lift	72 hrs	48 hrs	10-12 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.

Product Application

ICO Ure Guard TL is particularly recommended in such harsh environments as below ovens, under fryers or sterilizers, and in extreme thermal shock situations, such as where super heated steam is used.

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. 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.

Packaging and Coverage Rates

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

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**) if concrete is damp. Allow to dry tack free.
4. Using a paddle-style, add tint and half of aggregate to Part A, mix for 30 seconds, followed by addition of Part B and mix for another 30 seconds, then add remainder of sand and mix until uniform in color and consistency.
5. ***CAUTION: Do not leave in bucket, but pour out immediately using a screed box, screed bars or a gauge rake, as working time is limited to no more than 15 minutes at 70°F.***
6. 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.
7. (***Optional***) For enhanced gloss, stain resistance, and color stability, apply one coat of **ICO Ure Guard 100** at 8-10 mils within 24 hours of application of trowelled mix.

Precautions

Avoid skin and eye contact as liquids can cause some irritation. Clean up with mineral spirits. Part B is particularly moisture sensitive and must be kept securely closed at all times. Consult MSDS for complete details.

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.

Technical Assistance

Our many years of installation experience enable us to provide valuable input on not only proper material selection but also installation techniques that will help assure your satisfaction. We have qualified personnel to inspect your floors, analyze the cause of the problems and design procedures and specifications to prolong the useful life of your floors. We furnish detailed application specifications including drawings of necessary details to be used. We are prepared to offer job site instruction for your in-house maintenance crews or to work closely with your preferred applicator. We can also furnish a list of a network of **ICO** trained certified contractors.

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.