

ICO URE GUARD SL

Product Description

ICO Ure Guard SL is a three-part, virtually odorless urethane cement flooring material that is normally applied 3/16"-1/4" in thickness. It differs from our **Ure Guard TL** material only in the type of fill and the ratio of fill : liquid (2.7:1 by weight vs. 4:1 for the trowelled version) but has similar physical and chemical properties and thus, is suitable for the same harsh environments. Although slightly more costly than the "TL" version it is easier to apply and is oftentimes the preferred choice on large, open areas where aesthetics are more critical. Normally, after applying by trowel, it is heavily seeded with appropriate aggregate to achieve the desired texture and full quarter inch thickness normally specified.

ICO Ure Guard SL can be applied at temperature ranges from 40°F to 90°F, in a single step application with cure times as low as 10 hours at higher temperatures. For better UV resistance, gloss and color stability, a top coat of our 100% solids, aliphatic urethane, **ICO Ure Guard 100**, applied up to 10 mils thickness is recommended, again especially on new construction where aesthetics are most critical.

Product Application

ICO Ure Guard SL is particularly recommended in food and beverage plants in areas subjected to extreme thermal shock and where highly acidic cleaners are used at elevated temperatures (generally 180°F and above) or areas seeing elevated temperatures over 212°F. Examples would include under fryers, ovens pasteurizers and sterilizers..

In addition, **Ure Guard SL** has been found particularly effective in chemical processing areas seeing very aggressive acids at temperatures above 140°F. Typical examples would include citrus and lactic-acid production as well as sugar refining 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(unfilled)	: 6.3%	Flammability, D-635	: self-extinguishing
Compressive Strength, C-579	: 4550psi	Coefficient Of Thermal Expansion,D696	:TBD
Hardness, Shore D	: 72	Gardner Impact	: >160 inch pounds
Water Absorption, D-570	:0.2% in 24 hrs		

Physical Characteristics

Density lbs./gal.

Pt. A	8.3
Pt. B	10.35
A&B Mixed	9.26

Viscosity cps@ 75°F

Pt. A	175
Pt. B	170
A&B Mixed	330

Mixing Ratio

	<u>By Volume</u>	<u>By Weight</u>
Pt A : Pt B	1.3:1	1:1
Aggregate : Liquid	1.2:1	2.7:1

Curing Times @

	<u>40°F</u>	<u>60°F</u>	<u>80°F</u>
Pot Life	15 min	15 min	10 min
Working Time	18 min	15 min	15 min
Hard, Foot Traffic	48 hrs	24 hrs	10 hrs
Hard, Fork Lift	72 hrs	30 hrs	12-14 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.

Packaging and Coverage Rates

Basic Kit (consisting of 2 gallons of liquid and 50lb bag of filler): 28SF @ 1/4"
Bulk Pack (consisting of 20 gallons of liquid and ten-50lb bags of filler): 280SF @ 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 mixer, add tint and half of the 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: limited working time of about 15 minutes @ 70°F. Do not leave in bucket but immediately pour onto floor and spread with screed box, gauge rake or screed bar at a coverage rate of about 30SF/basic kit.***
6. Lightly trowel to smooth out material, followed by spike rolling to level floor. Then, to achieve desired texture immediately broadcast in suitable size grit (about a half pound per SF) Allow to dry.
7. Vacuum off loose sand.
8. (***Optional***) Apply top coat of **Ure Guard 100** at up to 10 mils (160SF/gal) to provide a higher gloss, more easily cleanable surface within 24 hours of laying floor.

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. Do not apply if substrate temperature within 5 degrees of dew point.

Product Specification

The specified area shall receive an application of **ICO Ure Guard SL** 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 low odor, three-part urethane cement that can be applied in any thickness in a single pass down to 3/16". The overlayment shall have a Shore D hardness of 72 and a tensile elongation of 6.3% with a tensile strength of 2585psi (as measured under ASTM D638) and a compressive strength of 4550psi (ASTM C-579).

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.