ICO URE GUARD SLURRY

Product Data Sheet

Product Description

ICO Ure Guard Slurry is a three-part, virtually odorless urethane cement flooring material that is normally applied by a notched squeegee or trowel at 3/16" then seeded with silica sand to achieve a minimum thickness of ¼". It differs from our **Ure Guard TL** material only in the type of fill and the ratio of fill : liquid (2.2:1 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: withstanding temperatures up to 400°F and most inorganic acids up to 180°F. It is easier to apply than the trowelled version and thus, is oftentimes the preferred choice on large, open areas where aesthetics are more critical.

ICO Ure Guard Slurry can be applied at temperature ranges from 40°F to 90°F, with cure times as low as 10 hours at higher temperatures. A top coat of our 100% solids, aromatic urethane coating, **ICO Ure Guard SL/TL Coating**, is recommended over the seeded surface to facilitate cleaning

Product Application

ICO Ure Guard Slurry is particularly recommended in food and beverage plants in areas subjected to extreme thermal shock, where moderately aggressive reagents are used at elevated temperatures (generally 140 to 212°F) or areas seeing elevated temperatures up to 400°F. Examples would include under fryers, ovens, pasteurizers and sterilizers, as well as kitchen floors.

In addition, **Ure Guard Slurry** has been found particularly effective in chemical processing areas seeing very aggressive acids at temperatures 140°F to 180°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 TL**" for exact chemical resistance ratings.

Physical Properties

Tensile Strength, (ASTM D638)	:.2585psi	Bond Strength to Concrete (D-4541)	: > 400psi (concrete failure)
Tensile Elongation, D638(unfilled)	: 6.23%	Flammability (D-635)	:Self extinguishing
Compressive Strength, C-579	: 4550psi	Coefficient of Thermal Expansion (D-696)	:1.7 x 10^{-4} per °F
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	8.1
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	**By Volume**	**By Weight**
Pt A : Pt B	1.3:1	1:1
Aggregate : Liquid	1:1	2.2:1

Curing Times @	**40°F**	**60°F**	**80˚F**
Pot Life	15 min	15 min	10 min
Working Time	18 min	15 min	10 min
Hard, Foot Traffic	36 hrs	12 hrs	10 hrs
Hard, Fork Lift	48 hrs	24 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: 40SF @ 3/16"
Bulk Pack: 400SF @ 3/16"
Drum Kit: 4000SF @ 3/16"

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 mixer, mix Part A and Part B for 30 to 60 seconds, followed by addition of sand and tint and mix until uniform in color and consistency. Immediately dump onto floor and spread.
5. 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 one pound per SF) Allow to dry.
6. Sand lightly and vacuum off any loose grit.
7. Coat with **ICO Ure Guard SL/TL Coating** at a coverage rate of about 80-100SF per gallon (16 - 20 mils), depending on desired texture.

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

Precautions

1. Very limited working time; pour our immediately.
2. Make sure Part B's are kept tightly secured as moisture in air can react with isocyanate. Limited shelf life: 6 months
3. Only use ICO Ure Guard Slurry Filler, 41lb bag.

Product Specification

The specified area shall receive an application of **ICO Ure Guard Slurry** as supplied by **International Coatings, 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 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).

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**.**

Milamar Coatings, L.L.C.
A CASS Polymers Company

311 NW 122nd St, #100 Oklahoma City, OK 73114
800.459.7659
www.milamar.com