



ICO URE Guard 100

Product Data Sheet

Product Description

ICO Ure-Guard 100™ is a solvent-free, two-part aliphatic urethane coating for both indoor and outdoor use. It is virtually odorless with zero VOC's and as such is designed to meet all current and future local, state and federal regulations. **ICO Ure Guard 100** has excellent gloss retention, color stability, and UV resistance, as well as being chemically resistant to such reagents as battery acids, gasoline, caustics and most moderate concentrations of inorganic acids.

Ure-Guard 100™ can be applied by brush, roller or spray up to 5 mils on smooth surfaces per coat, and between 40°F and 80°F. It is available in all of our standard pigmented colors, as well as clear. It has good adhesion to clean, properly prepared concrete, metal and wood surfaces; however, we do recommend use of our more moisture tolerant epoxy primer **ICO Primer LV**, over relatively new or damp concrete prior to applying the urethane.

Product Application

ICO Ure-Guard 100™ is particularly recommended as a top coat over one of our epoxy or urethane cement coatings where greater color stability and UV resistance are desired. Other uses would include kitchens and baths, animal laboratories, beer and beverage distributorships, and institutional and commercial establishments where zero odor is mandatory.

Industrial applications would include use as a top coat over our **ICO Glaze** wall coating system, and as a pigmented top coat in aisle ways, warehouses, packaging lines, battery storage areas, utility rooms and power plants where better stain resistance and high gloss, low maintenance floors are desired.

Chemical Resistance

Please refer to the Milamar Chemical Resistance Chart under Ure Guard 100 for a list of chemical resistance ratings.

Physical Properties

Tensile Strength (ASTM D-638):	530 psi	60° Gloss:	80
Tensile Elongation (D-638):	85%	Bond Strength to Concrete:	350 psi (concrete fails)
Hardness, Shore A (ASTM D-2240):	90	Taber Abrasion (ASTM-D1044) <CS17, 1000g, 1000 cycles>:	25 mg

Physical Characteristics

Density, lbs./gal.	
Part A:	9.23
Part B:	9.44
A&B Mixed:	9.34
Viscosity @ 75°F, cps	
Part A:	1800
Part B:	500
A&B Mixed:	1100

Mixing Ratios	By Volume	By Weight
Part A : Part B:	1:1	1:1

Curing Times*	40°F	50°F	70°F
Pot Life:	10 min.	8 min.	7 min.
Working Time*:	15 min.	12 min.	8 min.
Tack Free:	20 hrs.	12 hrs.	2.5 hrs.
Hard, Foot Traffic:	28 hrs.	24 hrs.	8 hrs.
Hard, Fork Traffic:	48 hrs.	36 hrs.	24 hrs.
*After 3 minute mandatory induction time.			

Color Availability

Available in all standard colors and clear

Shelf Life

6 months in closed containers when stored between 60° and 80°F.

Packaging and Coverage Rates

4 Gallon Kit : 1,200 SF @ 5 mils DFT
 20 Gallon Kit : 6,000 SF @ 5 mils DFT
 100 Gallon Drum : 30,000 SF @ 5 mils DFT

Installation

Please refer to our Application Specs for detailed instructions. Particular care must be taken to follow those instructions precisely to assure proper installation

- Over new concrete or slab-on-grades that are damp, apply ICO Primer LV or LVFC first and allow to dry tack free.
- Lightly sand previously applied (epoxy) coating or primer prior to applying ICO Ure Guard 100.
- Mix Part A and Part B with a jiffy-style mixer at a low to medium speed (750rpm) for 30 to 60 seconds, or until totally uniform in color. **Allow a minimum 3 minutes induction time.**
- Re-stir and then pour contents on to floor in a ribbon pattern, spread out to about 300SF/gallon (5 mils DFT) with a rubber squeegee and backroll with a fine nap roller (1/4") for uniform finish. For anti-slip surface broadcast in desired aggregate and backroll into the still wet coating. Recoat

window at 70°F is approximately 48 hours, after which the coating should be sanded before application.

NOTE: Failure to follow the above instructions, unless expressly authorized by a Milamar Technical Services Representative, will void our material warranty.

Precautions

- 1. Must be applied at least 5 degrees above the dew point.**
- 2. Can be applied in temperature range of 40° - 80°F.**
- 3. Apply no greater than 5 mils (300SF/gal) per pass on smooth surface.**
- 4. Must let pigmented materials sit 2 to 3 minutes after mixing prior to spreading to minimize color float.**
- 5. Very short working time: spread quickly with notched squeegee. For vertical or overhead application ask for special slow cure version.**
- 6. Do not use in situations with hot tires, e.g., airplane hangars, fire stations and car dealerships, which can stain floor.**
- 7. Do not apply over damp surfaces.**
- 8. Recoat window without sanding at 70°F: 48 hours.**

Product Specifications

The specified area shall receive an application of **ICO Ure-Guard 100™** as manufactured by **Milamar Coatings LLC. of Oklahoma City, Oklahoma**. The material shall be installed by precisely following the manufacturer's published recommendations. The materials shall be a low odor, two-part 100% solids aliphatic urethane with zero VOC that can be applied up to 5 mils thickness in a single application. It must have a minimum tensile elongation as measured under ASTM D-638 of 80% and a Taber Abrasion, as measured under ASTM D-1044, CS17 wheel, 1000g, 1000 cycles of 25mg. It shall resist chemical attack from Skydrol, gasoline, brake fluids, 50% sulfuric acid and 50% sodium hydroxide for at least 24 hours.

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.

LIMITED WARRANTY

Milamar Coatings products are manufactured to be free of defects in material and workmanship in meeting the properties specified on its individual Product Data Sheets. Users and installers of Milamar Coatings products are solely responsible for determining the suitability of the products for specific product applications. Milamar Coatings makes no Warranty or Guarantee, express or implied, including warranties of fitness, design compatibility or merchantability, for any particular use and shall have no responsibility or liability, including direct, indirect or consequential damages, due to injury, delay or third party claims for installation or repair. Likewise, Milamar Coatings assumes no liability of any nature for products that are adjusted in the field or that do not utilize all specified Milamar Coatings components. Should any Milamar Coatings product be proved to be defective within one year from the date of shipment, Milamar Coatings will, at its sole discretion, either replace the material; issue a credit to the customer's account; or provide a cash refund for the initial, paid purchase price of the material. Potential claims regarding product quality must be received in writing by Milamar Coatings within 30 days of the discovery of such potential defect. This Warranty is exclusive of all other warranties, expressed or implied, and may only be adjusted in writing, signed by an officer of Milamar Coatings, L.L.C.

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