ICO URE Guard 80

Product Data Sheet

Product Description
ICO Ure Guard 80™ is a high solids (80%) two part, aliphatic polyurea/polyaspartic floor coating with excellent UV stability and gloss retention. It can be applied in a single step application by roller or spray in any thickness up to about 15 mils DFT, or 80SF/gal, It has very quick drying capabilities; at 70°F, it is hard enough to walk on in 5 to 6 hours, making it an ideal top coat for applications where downtime is limited.
ICO Ure Guard 80 is available in a clear coat, as well as our standard colors – in 4 gallon pre-measured kits, 20 gallon bulk kits and 100 gallon drum kits. It can be applied in a temperature range of 40° to 90°F, at least 5 degrees above the dew point. It should be applied over our epoxy primer, ICO Primer LV or LVFC, especially on slab-on-grades where some moisture can be present.

Product Application
ICO Ure-Guard 80™ is particularly suited as a clear top coat over one of our decorative systems, either ICO Flake or ICO Quartz, where superior long term gloss retention and UV resistance are required. For example, any commercial, institutional or retail establishment wanting to reduce maintenance costs by eliminating vinyl tile or carpeting would be a strong candidate for a Ure Guard 80 top coated floor. Because it has a fast turnaround time, good UV resistance and does not stain from tire exposure, it is an excellent top coat when used with our ICO Flake system for residential and commercial parking garages.
For areas, especially indoors where odor is an issue, we recommend any one of our epoxy coatings or our 100% solids polyurethane, ICO Ure Guard 100. For airplane hangars our aliphatic polyurethane would be the choice because of its better resistance to skydrol.

Physical Properties

Vapor Transmission Rate (ASTM E-96):	.03 perms	**Hardness, Shore A (ASTM D-2240):**	90
Tensile Elongation (D-638):	85%	**Adhesion to concrete (elcometer):**	400 psi (concrete fails)
Taber Abrasion (ASTM D-1044) <cs17, 1000g, 1000 cycles>:	80 mg.	**60° Gloss**	80
		Tensile Strength (ASTM D-638):	400 psi

Chemical Resistance

Acetic Acid, 10%:	NR	**Phosphoric Acid, 30%:**	OS*
Bleach:	R*	**Salt Brine:**	I
Citric Acid:	OS	**Skydrol:**	NR
Corn Syrup:	I	**Sodium Hydroxide, 50%:**	S
Hydrogen Peroxide, 36%:	NR	**Sulfuric Acid, 10%:**	I
Isopropyl Alcohol:	NR	**Sulfuric Acid, 30%:**	S*
Jet Fuel:	R	**Sulfuric Acid, 50%:**	OS*
Kerosene:	R	**Toluene:**	NR
Lactic Acid, 20%:	NR	**Urine:**	R
Mineral Spirits:	R	**Nitric Acid, 10%:**	NR

Key: NR - Not Recommended **S -** Short Term Resistance - 72 hours **I** - Immersion / 30 days
OS - Occasional Spillage / 24 hours **R** - Recommended - 7 days *Some Staining

Physical Characteristics

Density, lbs./gal.	Clear	Pigmented
Part A:	8.6	9.4
Part B:	9.6	9.6
A&B Mixed:	8.9	9.5
Viscosity @ 77°F, cps	**Clear**	**Pigmented**
Part A:	55	130
Part B:	700	700
A&B Mixed:	95	180

Mixing Ratios @ 10 mils	By Weight	By Volume
Part A : Part B clear:	2.3:1	2.6:1
Part A : Part B pigmented:	2.7:1	2.7:1

Curing Times*	40°F	75°F
Pot Life:	30 min.	20 min.
Working Time:	20 min.	15 min.
Dry to Touch:	4.5 hrs.	2 hrs.
Hard, Foot Traffic:	18 hrs.	6 hrs.

*For 10 mils (DFT) applications (curing times vary with thickness).

Color Availability
All standard colors, Clear

Shelf Life
6 months in unopened containers.

Packaging and Coverage Rates
4 Gallon Kit : 533 SF @ 10 mils DFT
20 Gallon Kit : 2665 SF @ 10 mils DFT
100 Gallon Kit : 13,330 SF @ 10mils 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.
1. If applied over concrete, the floor must be cleaned, abraded by mechanical means and then primed with ICO Primer LV or LV FC at a coverage rate of 250 SF/gallon. Allow to dry tack free.
2. Mix Part A and B for low speeds (< 750 rpm) with a Jiffy style mixer for 30-60 seconds, or until uniform in color. If pigmented, Mix Part A first for about 30 seconds.
3. Immediately after mixing, pour out onto floor in a ribbon fashion, spread with a rubber squeegee to a recommended coverage rate of 133SF/gallon to yield a single 10 mil (DFT) coat, then back-roll with a fine nap adhesive roller.
NOTE: Failure to follow the above instructions, unless expressly authorized by a Milamar Technical Service Representative, will void our material warranty.

Precautions
1. **Must be applied at least 5 degrees above the dew point.**
2. **Do not apply below 40°F.**
3. **Do not apply over damp substrate.**
4. **Maximum coverage/coat: 20 mils wet or 16 mils dry film (80SF/gallon).**

Product Specification
The specified area shall receive an application of ICO URE-Guard 80 as supplied by Milamar Coatings LLC. of 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 an 80% solid, two part aliphatic polyurea coating with a dry time of 6 hours at 75°F. It shall have a tensile strength of 400 psi and elongation of 85% as measured by ASTM D-638. It shall be resistant to a variety of chemicals for at least 72 hours, including 30% sulfuric acid, 50% sodium hydroxide, and gasoline.

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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