

ICO GLAZE

Wall / Ceiling Coating



***Cleanroom-Type Protection
for the Toughest Industrial Environments***

 **ilamar**
Coatings, L.L.C.
A CASS Polymers Company

ICO GLAZE

Product Description:

ICO Glaze is a two part 100% solids, zero VOC high build epoxy coating designed primarily for application on vertical and overhead masonry surfaces where a high gloss, high chemical resistant impermeable barrier is desired. Normally applied at 25-30 mils Dry Film Thickness (DFT) in a three coat application, ICO Glaze features use of our highly flexibilized "ICO Guard" resin system, allowing for superior thermal shock and impact resistance. It is available in all our standard colors and using our "Fast Cure" versions can be applied down to 40F, even over damp substrates, by brush, roller or spray.

ICO Glaze is available in several systems:

ICO Glaze – our standard three step epoxy coating for Concrete Masonry Unit (CMU), consisting of ICO Primer XT, ICO Glaze Base Coat, and ICO Glaze Top Coat. Minimum DFT : 30 mils

ICO Glaze ES – for smoothing and finishing CMU to remove grout lines, consisting of ICO Gel and two coats of ICO Glaze Top Coat. Minimum DFT : 30-40 mils

ICO Glaze CC – for sealing concrete walls, consisting of ICO Gel(for filling bugholes) and two coats of ICO Glaze Top Coat. Minimum DFT: 20 mils

ICO Glaze FG – a fiberglass reinforced wall coating system for enhanced crack resistance. System includes a scratch coat of ICO Gel, followed by a layup of 1 - 1 1/2 ounce fiberglass scrim cloth, then after drying, two coats of ICO Glaze Top Coat at 10 mils per coat.

ICO Glaze UV – any of the above systems with a top coat of Ure Guard 100 UV-resistant aliphatic urethane top coat

ICO Glaze AB – any of the above systems with anti-bacterial additives in the top coat

Competitive Advantages:

- Completely odorless applications, including urethane top coat
- Excellent damp, as well as dry adhesion to wide variety of substrates, including tile shower stalls
- Thixotropic characteristics eliminate need for weaker cementitious block fillers on new CMU
- No glass fibers needed to attain high builds, eliminating chance of moisture wicking
- High gloss, seamless finishes
- Low temperature applications(down to 40F)
- Can be applied in high humidity conditions
- Superior thermal shock resistance compared to more brittle epoxies
- Excellent chemical resistance to harsh CIP cleaners
- 100% solids epoxies enable single coat applications in non-critical areas.



Before



After

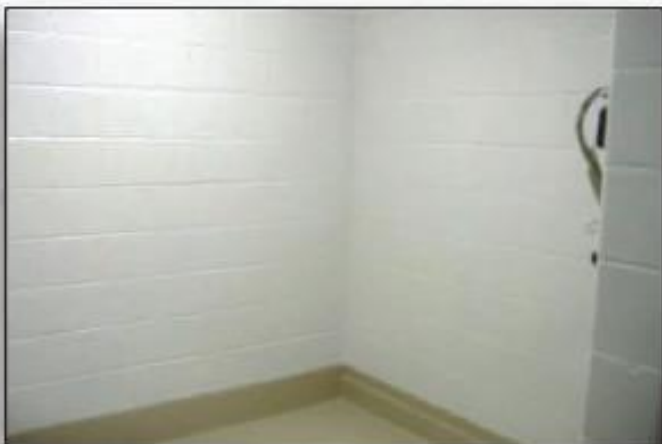
Typical End Uses Include:

- Food & Beverage Plants
- Pharmaceuticals
- Pulp/Paper mills
- Cleanrooms
- Institutional Use: kitchens, shower enclosures, locker rooms, laundries
- Laboratories
- Animal Kennels/Vivariums
- Hospital Operating Rooms / Dialysis Centers
- Grain Silos
- Car Washes



Product Applications:

ICO Glaze is an ideal protective wall and ceiling coating system in wet environments, as well as corrosive atmospheres where ordinary paints will fail. It is particularly suited for food plants where its zero odor, high chemical resistance to CIP cleaners and resiliency to better resist thermal shock are mandatory. Its high gloss, seamless surface is far more resistant to mold growth, compared to tile, FRP Panels and other non-seamless surfaces.





Installation Instructions:

1. All new concrete block should be pressure washed using a minimum 3000 psi pressure. Poured concrete should be brush blasted or ground.
2. Use appropriate detergents to remove any oils, release agents, sealers, etc. that may prevent adequate adhesion.
3. Previously coated walls must be sand blasted or mechanically ground to remove all old coating.
4. Remove any protuberances by grinding.
5. Fill bugholes in cement board or concrete with ICO-Gel.
6. Prime with ICO Primer XT at average rate of 200 sf/gal.
7. ICO-Glaze Base Coat can be applied by use of a medium nap (3/8") roller or by spray at coverage of about 100 sf/gal. Work into substrate to help fill holes. Allow to dry almost tack free, but not more than 24 hours (at 77 degrees).
8. Mix ICO-Glaze Top Coat and apply by a fine nap (1/4") roller or by spray at coverage of 160sf/gal.
9. (Optional) Apply top coat of Ure Guard 100 at no more than 300 sf/gal for improved gloss and color retention and UV resistance.
10. For application temperatures between 40F and 50F substitute ICO-Glaze FC version. For temperatures between 32-40F, consult ICO Technical Services.
11. For obtaining smooth surfaces, apply troweled base coat of ICO-Gel, sand, touch up ICO-Gel, re-sand and apply two coats of ICO Glaze Top Coat.

Product Specifications:

The specified area shall receive an application of ICO-Glaze as manufactured by Milamar Coatings, Oklahoma City, OK. The system 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, solvent free, 100% solids, high gloss, flexibilized epoxy system with good resilience to resist thermal and mechanical shock. The system must adhere to damp as well as dry concrete, wood, metal, tile, terrazzo, and sound existing epoxy coatings. It shall have a elongation factor of 9% in the unfilled form, when testing using ASTM D-638. The film hardness shall be a Shore D of 80. The system shall be unaffected by oils, greases, and resist such chemicals as 36% hydrochloric acid, 10% nitric acid, 50% sulfuric acid and 50% sodium hydroxide.

Physical Properties:

Tensile Strength (ASTM C-638):	1560psi
Tensile Elongation, Unfilled (D-638):	9%
Flexural Strength (D790)	4140 psi
Hardness, Shore D (D-2240):	80
60 Degree Gloss:	100
Gardner Impact Strength:	80 inch-pounds
Bond Strength to Quarry Tile:	>1000psi
Vapor Transmission Rate (E:96):	.03 perms
Water Absorption (D-570):	0.2% in 24 hrs
Taber Abrasion (D-1044):	105mg. Loss
CS 17, 1000g, 1000 cycles	

Packing and Coverage Rates:

ICO-Glaze consists of ICO Primer XT, ICO-Glaze Base Coat, ICO-Glaze Top Coat packaged separately in four gallon kits.

Recommended Coverage Rates:

• ICO Primer XT	200 sf/gal
• ICO-Glaze Base Coat	100 sf/gal
• ICO Glaze Top Coat	160 sf/gal
• ICO Ure Guard 100 (optional)	300 sf/gal



311 NW 122nd Street, Suite 100 • Oklahoma City, OK 73114

800-459-7650 • www.milamar.com