

ICO-GLAZE

Product Description

ICO-Glaze® is a two part, odorless 100% solids epoxy wall coating for protecting concrete, block, brick and other porous substrates in the harshest industrial environments. It is applied in two coats, **ICO Glaze Base Coat** and **ICO Glaze Top Coat**, over a primed surface, up to 25mils dry film thickness. **ICO Glaze®** dries to a high gloss, ceramic-like finish impervious to liquid and vapor transmission, as well as harsh chemical attack. Its enhanced resiliency makes it an ideal protective wall coating for environments subject to frequent washdowns and light impact. For harsh thermal shock, e.g., direct high temperature water or steam, use of our **ICO Glaze® ES** system, whereby joints are filled flush with our **ICO Gel** epoxy smoothing paste, is recommended.

ICO Glaze® is most economically used in new construction, where old sealers or coatings are not present. Because of its odorless application it can also be used in existing facilities without contaminating people or products; however, old paints should be removed prior to application.

For enhanced crack resistance use of a polyester or fiberglass scrim cloth embedded in the **ICO Glaze Base Coat** is recommended.

Typical Application

ICO-Glaze® is an ideal wall coating system for industrial plants, especially those in food and beverage processing plants, where constant moisture, aggressive cleaning chemicals, and thermal shock are found. For pharmaceutical, laboratories and cleanroom applications, it is particularly valued for its seamless, high gloss surface that is highly resistant to bacteria and mold growth and can be easily sanitized without deterioration of the coating.

ICO Glaze® is also recommended as an anti-graffiti coating in schools, hospitals, and other commercial and public environments due to its excellent solvent resistance. In wet environments like car washes, laundries, truck wash bays, and swimming pools, **ICO Glaze®** offers significantly longer wear compared to conventional paints and coatings.

Chemical Resistance

As a modified **ICO-Guard Coating**, **ICO-Glaze®** is designed to withstand chemical attack from most C.I.P. cleaning solutions, including those containing up to 30% nitric, 50% caustic, 30% phosphoric and 10% chlorine. A complete list of chemical resistances is available in the **International Coatings Resistance Chart** under "**ICO-Guard**".

Physical Properties

Tensile Strength (ASTM C-638)	: 1560 psi	Gardner Impact Strength	: 80 inch-pounds
Tensile Elongation, unfilled (D-638)	: 9%	Bond Strength to Quarry Tile	: >1000 psi
Flexural Strength (D 790)	: 4140 psi	Vapor Transmission Rate (E:96)	: .03 perms
Hardness, Shore D (D-2240)	: 80	Water Absorption (D-570)	: 0.2% in 24hrs
60° Gloss	: 100	Taber Abrasion (D-1044)	: 105mg. loss
		CS 17, 1000g, 1000 cycles	

Physical Characteristics (Unless otherwise designated all data are for regular cure material, white)

Density, lbs/gal.		Mixing Ratios		By Vol		By Wgt		By Vol		By Wgt	
Base Coat	Top Coat										
Pt A	: 15.2	14.7	ICO Glaze® A:B	3.8:1	7:1	3:1	5:1				
Pt B	: 8.5	8.5	ICO Glaze® FC	3.5:1	6.5:1	----	----				
A&B Mixed:	13.2	13.1									
Viscosity@77°F, cps		Curing Times				32°F	50°F	77°F	90°F		
			ICO Glaze®, Base Coat & Topcoat, Pot Life			-	60 min.	50 min.	25 min.		
			ICO Glaze®, Base Coat & Topcoat, Tack Free			-	10 hrs.	6 hrs.	2 hrs.		
			ICO Glaze®, Base Coat & Topcoat, Hard, No Indentation			-	30 hrs.	20 hrs.	5 hrs.		
Pt A	: 23,200	10,000	ICO Glaze® Base Coat, FC, Pot Life			20 min.	20 min.	15 min.	10 min.		
Pt B	: 420	420	ICO Glaze® Base Coat, FC, Tack Free			18 hrs.	6 hrs.	4 hrs.	1 hr.		
A&B Mixed:	7,000	2,800	ICO Glaze® Base Coat, FC, Hard, No Indentation			35 hrs.	18 hrs.	12 hrs.	2.5 hrs.		

Shelf Life: Maximum hardness and chemical resistance are achieved after 7 days at 77°F

Color Availability

Standard colors: White, Gray and Beige. Custom colors are available at an extra charge.

Packaging and Coverage Rates

ICO-Glaze consists of **ICO-Glaze Base Coat** and **ICO-Glaze Top Coat** packaged separately in either one gallon or four gallon kits. Coverage rates will vary with substrate porosity; however **ICO Glaze Base Coat** normally should be applied at about 100 SF per gallon (16 mils) on new block walls and **ICO-Glaze Top Coat** at 160 SF/gallon (10 mil) over the base coat. Do not apply below 50°F

Installation

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

1. All surfaces should be power washed or sand blasted to remove all old paints, sealers and other contaminants, leaving a clean, open surface. Roughen any smooth, well adhering epoxy coatings.
2. Deep holes or eroded joints should be filled with **ICO-Gel** epoxy gel and allowed to dry. Sand off any protuberances.
3. Prime walls with **ICO Primer GL** at about 160 SF/gal. Recoat window @ 77°F: 5-15 hours
4. Mix **ICO-Glaze Base Coat** Part A at low speeds (less than 700 rpm) for 30-60 seconds with a paint or "jiffy style" blade driven by a heavy duty hand drill, then add in Part B and mix for another 30-60 seconds, or until uniform. Refer to **Technical Bulletin 117** for further mixing instructions.
5. Apply **ICO-Glaze Base Coat** with a heavy nap roller (3/8" or thicker), squeegee, blade or an airless sprayer. Typical application rate: 100 SF/gallon. If holes in wall still visible, repeat with second coat. Allow to dry tack free. Recoat window is 6-20 hours at 77°F.
6. Mix **ICO-Glaze Top Coat** as described in Paragraph 4.
7. Apply **ICO-Glaze Top Coat** at a coverage rate of 160 SF/per gallon with a fine to medium nap roller (1/8"-1/4") or spray on with an airless sprayer. Contact **International Coating's Technical Service** for additional information on spraying. Recoat window is 6-20 hours at 77°F.

Notes:

1. If a smooth surface is desired, then use **ICO-Gel** and trowel on with steel trowel until surface is relatively smooth. Allow to dry, sand or grind off protuberances and then coat with **ICO-Glaze Top Coat** at about 160 SF/gallon. Allow to dry, sand if necessary and apply a second coat of **ICO-Glaze Top Coat** or for less stipple, **ICO Guard Coating**.

Precautions

Avoid skin contact with liquid Part A and Part B as they may cause skin irritation to some people. Protective hand creams and/or gloves should be used. Clean-up can be done with hot soapy water before the material starts to set. Once the material has set it can be removed with a paint stripper.

Product Specification

The specified area shall receive an application of **ICO-Glaze** as manufactured by **International Coatings of Franklin Park, Illinois**. 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 an elongation factor of 9% in the unfilled form, when tested 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, 30% nitric acid, 50% sulfuric acid and 50% sodium hydroxide. It also should be unaffected by toluene, xylene, methanol and perchlorethylene.

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.

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 numerous 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.

WARRANTY - All products manufactured by us are warranted to be first class material and free from defects in material and workmanship.

Liability under this warranty is limited to the net purchase price of any such products proven defective or, at our option, to the repair or replacement of said products upon their return to us transportation prepaid. All claims hereunder on defective products must be made in writing within 30 days after the receipt of such products in your plant and prior to further processing or combining with other materials and products. WE MAKE NO WARRANTY, EXPRESS OR IMPLIED, AS TO THE SUITABILITY OF ANY OF OUR PRODUCTS FOR ANY PARTICULAR USE, AND WE SHALL NOT BE SUBJECT TO LIABILITY FROM ANY DAMAGES RESULTING FROM THEIR USE IN OPERATIONS NOT UNDER OUR DIRECT CONTROL.

THIS WARRANTY IS EXCLUSIVE OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, AND NO REPRESENTATIVE OF OURS OR ANY OTHER PERSON IS AUTHORIZED TO ASSUME FOR US ANY OTHER LIABILITY IN CONNECTION WITH THE SALE OF OUR PRODUCTS.

