

## ICO-COAT

### Product Description

ICO Coat is a general purpose liquid epoxy binder. It is a low odor 100% solids epoxy and therefore can be applied in virtually any thickness without shrinkage or cracking. It is a non-blushing material with a low viscosity (450 cps) that enables it to be easily sprayed with conventional spray equipment without solvent additives. As a high compression strength (>10,000 psi) material it is very well suited for ground flooring applications.

ICO Coat finishes to a high gloss and is available as a clear liquid or in four pigmented colors, as well as a fast cure version, **ICO Coat FC**, for more rapid turnaround times down to 50°F. **ICO Coat** can resist caustics and dilute acids for up to 24 hour exposure, beyond which one of our more chemically resistant coatings should be used.

### Product Applications

ICO Coat is designed for applications requiring a low cost epoxy liquid binder for ground terazzo applications and decorative color quartz floors. In such applications, use of our clear epoxy sealer, **ICO Sealer**, or clear polyurea, **Ure Guard 80**, is recommended as a top coat because of superior clarity.

ICO Coat can be used as a bonding agent for ensuring adhesion between an old concrete slab and a new pour. It is an economical binder for patching or sloping floors with an aggregate mix (**ICO Patch**). Similarly, with its good wetting properties, **ICO Coat** is used in broadcast or slurry applications using graded silica aggregate. As a high gloss pigmented coating, **ICO Coat** is a cost effective resurfacing agent for warehouse floors, as well as interior walkways and aiseways with light vehicular traffic.

### Chemical Resistance

ICO Coat has good chemical resistance under splash/spill condition to caustics, most fuel oils, gasoline, and some dilute inorganic acids. For more corrosive conditions, consult our **Chemical Resistance Guide** for other ICO product recommendations

### Physical Properties (For regular cure (RC) unless otherwise noted)

Compression Strength, Clear	:12,650 psi	Hardness (Shore D)	:79-80
(ASTM C-579) Gray	:10,000 psi	Gardner Impact Strength(D-2794)	:>160 inch pounds
Tensile Strength, Clear	:9,075 psi	Bond Strength to Concrete	:>350 psi (concrete fails)
(ASTM D-307) Gray	:6,610 psi	Vapor Transmission Rate(ASTM E-96)	:.03 perms
Tensile Elongation, Clear	:2.8%	Taber Abrasion (ASTM D-1044)	:120 mg
(D-307), Gray	:1.7%	cs 17 wheel, 1000 g, 1000 cycles (resin only)	
		Gloss 60°	: 80 +

### Physical Properties

	Clear	Gray	Mixing Ratios	Clear		Gray	
				RC	FC	RC	FC
Density, lbs/gal.			Pt. A : Pt. B, by volume	3:1	2.2:1	4:1	3:1
Pt. A	9.26	13.0	Pt. A : Pt. B, by weight	3.3:1	2.7:1	6.4:1	5:1
Pt. B	8.3	8.3					
A&B Mixed	9.0	12.0					
Viscosity@77°F, cps			<b>Curing Times (clear and pigmented) @</b>	<b>50°F</b>	<b>75°F</b>	<b>90°F</b>	
Pt. A	800	2400	Regular Cure – Pot Life	35 min	30 min	25 min	
Pt. B	50	50	Tack Free	36 hrs	10 hrs	7 hrs	
A&B Mixed	450	1450	Hard, Foot Traffic	96 hrs	14 hrs	8 hrs	
			Fast Cure - Pot Life	18 min	16 min	12 min	
			Tack Free	16 hrs	7 hrs	4 hrs	
			Hard, Foot Traffic	22 hrs	10 hrs	6 hrs	

**Note:** Maximum Hardness and Chemical Resistance achieved after 7 day cure.

**Shelf Life:** One year in unopened containers, provided storage between 60°F and 80°F

### Color Availability

Gray (101), Dark Gray (102), Red (103),  
Beige (104), Clear

### Packaging and Coverage Rates @ 10 mils thickness

4 Gallon Kit	:	640 SF
20 Gallon Bulk Pack	:	3200 SF
100 Gallon Drum Kit	:	16,000 SF

Rev.11/0:

**Installation** Please refer to our Installation Guide for detailed instruction. Particular care must be taken to follow those instructions precisely to assure proper installation. Note: **Do not apply less than 50°F.**

1. New concrete should be allowed to cure a minimum of 28 days and tested with a rubber mat or plastic sheet to ensure moisture content is acceptable.
2. All surface to be covered should be power washed, shot blasted, acid etched, scarified or ground to obtain a clean, abraded surface, with an 80 grit minimum profile for thin film coatings and 40 grit for heavier slurry/seed systems.
3. No primer is necessary if surface is dry. If going over damp concrete, prime first with **ICO Primer LV or LV FC** at 200-250 SF/gallon and allow to dry tack free.
4. The two ingredients should be mixed in the prescribed ratios at low to medium speed with a jiffy-style mixer for at least 30-60 seconds until uniform in color. Pour out onto floor in a ribbon pattern. Do not keep in bucket.
5. For use as a thin film coating, apply at a coverage rate of 160 SF/gallon by squeegee, roller or spray. Normally, depending on the substrate, the product can be applied at a maximum coverage rate of 300 SF/gallon. For greater coverage rates the material can be thinned with toluene, xylol or MEK, up to 10% by volume.
6. If applied as a slurry/broadcast, mix one part of sand (by volume) to one part of liquid and spread out with a notched squeegee. After spike rolling, seed floor to excess with silica sand. See Technical Bulletin 128 for details.

### **Precautions**

Avoid skin contact with liquid Part A and Part B as they may cause skin irritation to some people. Protective hand cream and/or gloves should always be used. No special ventilation is needed as there are no solvents. Clean up can be done with toluene, xylene, or MEK. Once the material has set it can be removed with a paint stripper. **Always consult the MSDS sheets prior to use.**

### **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.

### **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.**

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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.**

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