

# ICO-GUARD COATING™

## Product Description

ICO-Guard Coating™ is a two part, 100% solids, epoxy coating. As a solvent free material, it has virtually no odor, is USDA-approved, and possesses excellent chemical resistance to most acids, alkaline and chlorine cleaners, oils, greases and common solvents. Its unusually high resilience (tensile elongation of 9%) enables it to better resist cracking and delamination under thermal shock conditions. Applied by brush, roller, squeegee, or spray it is normally applied at about 10 mils per coat or 160 SF per gallon. A two coat application is recommended to minimize pinholes and yield a more uniform appearance. It has excellent damp, as well as dry adhesion to concrete, metal and wood surfaces.

ICO-Guard Coating™ finishes to an easy-to-clean, high gloss surface. Anti-slip characteristics are enhanced by broadcasting in silica sand. Higher abrasion resistance can be obtained by adding fine (240 grit or finer) aluminum oxide to the top coat. For cold temperatures (down to 32°F) or faster turnaround times, our faster cure "FC" version is available. For even faster cures, our "XFC" version is recommended (see cure times below).

## Product Application

ICO-Guard Coating™ is particularly suited for interior floor applications where light vehicular traffic or foot traffic is present and where constant moisture and/or corrosive conditions exist. Typical applications include mezzanines for food processing plants, food warehouses and distribution centers, and cleanroom floor applications. For vertical surfaces, our high viscosity **ICO-Glaze™** system is recommended. Where heavy traffic is expected **ICO-Guard SL™** or **ICO-Guard 51™** should be used.

## Chemical Resistance

ICO-Guard Coating™ is recommended for areas subjected to such chemical solutions as 50% sulfuric, 20% nitric, 30% phosphoric, 20% lactic, 50% sodium hydroxide, toluene and xylene. A more complete list of chemical resistance is available in the **International Coatings Chemical Resistance Chart** or contact **ICO Technical Assistance**.

## Physical Properties

Tensile Strength (ASTM D638)	: 1560 psi	Gardner Impact Strength (D-2794)	: 80 in lbs.
Tensile Elongation (D-638)	: 9%	Bond Strength to Quarry Tile	: > 1000psi
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 24 hours
60° Gloss	: 100	Taber Abrasion (D-1044)	
		CS17, 1000 g, 1000 cycles	: 105 mg. loss

## Physical Characteristics (Unless otherwise designated, all data are for regular cure material, gray.)

Density, lbs/gal.	Viscosity@77°F, cps	Mixing Ratios	By Volume	By Weight
Pt. A : 15.4	Pt. A : 5500	Pt. A : Pt. B	2.5:1	4.5:1
Pt. B : 8.6	Pt. B : 300	Pt. A : Pt. B, FC	3.8:1	7:1
A&B Mixed : 13	A&B Mixed: 2000	Pt. A : Pt. B, XFC	3.3:1	5.6:1

Curing Times @		21°F	32°F	50°F	77°F	90°F
ICO Guard Coating	Pot Life	-	-	60 min.	50 min.	25 min.
ICO Guard Coating	Hard, Foot Traffic	-	-	24 hrs.	16 hrs.	5 hrs.
ICO Guard Coating, FC	Pot Life	-	20 min.	20 min.	15 min.	10 min.
ICO Guard Coating, FC	Hard, Foot Traffic	-	35 hrs.	18 hrs.	6 hrs.	2.5 hrs.
ICO Guard Coating, XFC	Pot Life	25 min.	20 min.	15 min.	10 min.	-
ICO Guard Coating, XFC	Hard, Foot Traffic	72 hrs.	24 hrs.	12 hrs.	4 hrs.	-

**Shelf Life** 1 year at 77°F in unopened containers.

Maximum Hardness achieved after 7 days @77°F.

## Color Availability

Standard colors: white, gray, dark gray, beige, yellow, red, green, blue, brown, black.

## Packaging and Coverage Rates (for 10 mil coverage)

1 gallon kit	:	160 SF
4 gallon kit	:	640 SF
100 gallon drum kit	:	16,000 SF

## Installation

Please refer to our Installation Guide for detailed instructions. Particular care must be taken to follow those instructions precisely to assure proper installation. Do not apply below 50°F unless using ICO-Guard Coating™ in the FC or XFC version.

1. New concrete should be allowed to cure a minimum of 28 days or be checked with a rubber mat or plastic sheet to insure adequate curing time has occurred.
2. All surfaces to be covered should be power washed, shot blasted, acid etched, scarified or sanded to present a clean, sound substrate to which to bond to. The prepared surface should have a ph of 7.
3. The two ingredients should be mixed in the prescribed ratios, using a low speed mixer (maximum 750 rpm). Mix Part A for about 1 minute then add Part B and mix for at least another minute until uniform in color and consistency.
4. No primer is necessary, as **ICO Guard Coating™** is self priming. However, if floor is particularly porous, a first coat of **ICO-Primer™ LV**, **ICO-Primer™ FC** or **ICO-Guard Coating™** thinned with toluene, xylene or MEK up to 10% by volume is recommended to seal the floor. Allow primer coat to dry.
5. Apply the mixed material with a short nap roller, a squeegee or a brush. Apply approximately 160 SF per coat to achieve 10 mils of coating.
6. Apply a second coat after the first coat is tack free, but before 16 hrs at 75°F. If more time has elapsed the first coat should be sanded before recoating.
7. A suitable aggregate may be broadcast onto the surface and backrolled to provide a more anti-slip profile to the finished surface. It is advisable to test various types and sizes of aggregate to achieve the desired finish profile.

## 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. Cleanup 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 Guard Coating™** as manufactured by **International Coatings, Franklin Park Illinois**. 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 flexible 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 and urethane coatings. It shall have an elongation 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, 20% nitric acid, 50% sulfuric acid and 50% sodium hydroxide.

## 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 our network of **ICO-trained** certified applicators.

## Mission Statement

**Our mission is to provide our customers the highest possible quality products and services and by so doing, build long term relationships based on mutual trust and respect.**

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.

**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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