

ICO-RUST GUARD

Product Description

ICO-Rust Guard is a two component, 100% solids surface tolerant epoxy coating designed for application to base metal or rusted steel surfaces. Unlike conventional direct to metal coatings, **ICO-Rust Guard** is solvent-free and odor-free. It dries to a hard, glossy finish. **ICO-Rust Guard** is especially formulated for excellent resistance to blushing and water spotting when applied in damp conditions. It has excellent adhesion to rusted steel and can also be used on properly prepared steel, galvanized metal or aluminum.

ICO-Rust Guard is applied in a single coat by brush, roller, or spray. A minimum 5-7 mil DFT coat is recommended, except where a substantial profile exists, in which case a two coat, 10-14 mil application is preferred. **ICO Rust Guard FC** is also available for applications down to 32°F. Because of its short pot life, we recommend it be purchased only in one gallon kits.

Typical Application

ICO-Rust Guard is ideally suited for coating structural steel and other metal surfaces, especially in food and beverage establishments where minimization of odor is critical. It is also well suited for applications where high humidity and damp conditions are present. **ICO-Rust Guard** provides maintenance personnel a one-step solution for protecting structural metal and other metallic surfaces from further rusting without need of extensive surface preparation or multiple coat applications. Most importantly, it is a safer alternative to conventional solvent-based coatings. No special ventilation is required, nor do special precautions have to be taken to protect nearby products from contaminants.

Chemical Resistance

ICO-Rust Guard will resist splash and spillage from dilute acids such as 10% hydrochloric acid and 10% sulfuric acid, caustics such as 10% sodium hydroxide, oils, greases, solvents such as gasoline, brake fluid and mineral oil. For more corrosive areas, application of one of our more chemically resistant coatings over a base coat of **ICO-Rust Guard** is recommended. Consult the **International Coatings Chemical Resistant Chart** for specific chemical ratings.

Physical Properties

Resin Type	:	Modified Polyamine Epoxy	Adhesion to:	
Percent Solids	:	100%	Rusted Metal (SSPC-SP-3)	: excellent
Hardness, Shore D	:	77	Blasted Metal (SSPC-SP-6)	: excellent
60° Gloss	:	~95	Aluminum (sanded)	: excellent
Salt Spray (ASTM D 1654)	:	pass 2000 hrs.	Galvanized (sanded)	: excellent
Taber Abrasion (D1044 (CS17, 1000g, 1000 cycles)	:	210 mg. Loss		

Physical Characteristics (All data are for Gray #101, Regular Cure, except where otherwise noted).

Density, lbs/gal.	Mixing Ratios	By Volume	By Weight		
Pt. A : 14.4	Pt. A : Pt. B, Reg. Cure	2.7:1	4.6:1		
Pt. B : 8.6	Pt. A : Pt. B, Fast Cure	3.1:1	5.3:1		
A & B Mixed : 12.6	Curing Times @	32°F	50°F	77°F	90°F
Viscosity@77°F, cps	Rust Guard, Pot Life	----	50 min.	50 min.	40 min.
Pt. A 18,000	Rust Guard, Tack-free	----	10 hrs.	4 hrs.	3 hrs.
Pt. B 520	Rust Guard, Hard	----	24 hrs.	12 hrs.	10 hrs.
A&B Mixed 2400	Rust Guard FC, Pot Life	18 min.	15 min.	12 min.	----
	Rust Guard FC, Tack Free	12 hrs.	8 hrs.	3 hrs.	----
	Rust Guard FC, Hard	18 hrs.	12 hrs.	6 hrs.	----

Note: Maximum hardness and chemical resistance are achieved after 7 days @77°F.

Color Availability

Standard colors: White, Gray, Beige, Red, Black and Blue.

Packaging and Coverage Rates

1 Gallon Kit : covers 250 SF @ 6 mils DFT
4 Gallon Kit : covers 1000 SF @ 6 mils DFT

Installation

Please refer to our Application Specs for detailed instructions. Particular care must be taken to follow these instructions precisely to assure proper installation

1. Surface Preparation—
 - a. **All Surfaces:** Remove all dirt, grease, oil, salt or other contaminants by washing the surface with degreaser, detergent or other suitable cleaner. Rinse thoroughly with fresh water and allow to dry. Thoroughly cured, hard or glossy previous coatings which are smooth should be sanded for better adhesion. Solvent wiping is not recommended.
 - b. Scrape and wire brush or power tool clean to remove all loose rust, scale or deteriorated old coatings (SSPC-SP2 or SP3). For severe exposure, a minimum commercial grade of sand blasting, e.g., SSPC-SP-5 is recommended.
2. Each ingredient should be mixed with a paint or "jiffy-style" mixer at low to medium speeds (not more than 750 rpm) for about 30-60 seconds before blending, or until uniform in color. Blend entire container of Part B with Part A and mix for an additional 1-2 minutes, again at low speeds.
3. Thinning is usually not necessary unless the material is less than 60°F, in which case MEK may be added to lower viscosity.
4. Use either a good quality natural or synthetic bristle brush, 1/8 to 1/4" nap roller recommended for epoxies, or an airless spray apparatus with the following specifications: 40:1 Pump Ratio, 3500 psi fluid pressure, .021" fluid tip and a minimum 3/4" I.D. air input line.
5. Mix only that amount of material that can be applied within the 50 minute pot life (@77°F). Do not apply coating once it begins to gel.
6. For recoating, apply as soon as first coat is tack-free, but before first coat dries hard.

Failure to follow the above instructions, unless expressly authorized by an ICO Technical Service Representative, will void our material warranty.

Precautions

1. For moderate to heavy rust buildup, use two coats at 6 to 7 mils per coat
2. In corrosive areas, use one of our chemically resistant top coats
3. Do not apply Regular cure below 50°F; do not apply Fast Cure below 32°F

Product Specification

The specified area shall receive an application of **ICO-Rust Guard** as manufactured by **International Coatings, Franklin Park Illinois**. The material shall be a low odor, solvent-free, 100% solid epoxy. It should be able to be applied up to 7 mils DFT on vertical surfaces without sagging. It shall be applied as a one-coat direct to metal finish by brush, roller or spray. It shall dry to a hard glossy finish. It shall be able to be applied in damp, as well as dry environments, over rusted metal, clean metal, aluminum and galvanized.

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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