

ICO-GUARD COLD CURE™

Product Description

ICO Guard Cold Cure™ is a solvent free, low odor, trowelled in-place epoxy floor system designed for cold temperature repairs. Other cold cure curing systems generally freeze before curing or have such pungent odor they will contaminate food products. ICO Guard Cold Cure™ for example, can be installed down to 20°F and be ready for service in 24 hours. Applied at a minimum thickness of one quarter inch, ICO Guard Cold Cure™ has excellent adhesion to damp, as well as dry concrete and masonry surfaces. The resin rich mix allows ICO Guard Cold Cure™ to be applied without a primer and without need of a sealer coat, thereby offering the applicator significant labor savings.

Typical Applications

ICO Guard Cold Cure™ is particularly recommended for resurfacing freezer and cooler floors. It also presents an extremely rapid spot patching material for above freezing applications. ICO Guard Cold Cure™ has been flexibilized to permit it to withstand steam cleaning even at below freezing temperatures.

Chemical Resistance

ICO Guard Cold Cure™ is particularly recommended for areas subjected to such chemical solutions as 50% sulfuric, 30% phosphoric, 30% nitric, 50% sodium hydroxide, toluene and xylene. A more complete list of chemical resistances is available in the International Coatings Chemical Resistance Chart under "ICO Guard™".

Physical Properties

Tensile Strength (ASTM C-307)	:2030 psi	Bond Strength to Quarry Tile	:>1000 psi
Flexural Strength (C-580)	:2550 psi	Coefficient of Thermal Expansion (D-696)	: 1.7 X 10 ⁻⁵ per °F
Compression Yield (C-579)	:5170 psi	Water Absorption	:0.3% in 24 hrs.
Gardner Impact (D-2794)	:> 160 inch-lbs.	Vapor Transmission Rate (E96)	:.03 perm

Physical Characteristics

Density, lbs/gal.	Mixing Ratios (Pt. A : Pt. B)	By Volume	By Weight			
Pt. A : 9.5	Liquids Pt. A : Pt. B	2.4:1	2.5:1			
Pt. B : 8.8	ICO Fill Aggregate:Liquid	2.5:1	4:1			
A&B Mixed : 9.4						
Viscosity@77°F, cps	Curing Times@					
Pt. A : 450		21°F	32°F	50°F	77°F	90°F
Pt. B : 1000	Pot Life	30 min.	25 min.	20 min.	15 min.	10 min.
A&B Mixed : 650	Hard, Foot Traffic	24 hrs.	18 hrs.	7 hrs.	2 hrs.	90 min.

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

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

Color Availability

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

Packaging and Coverage Rates

4 gallon kit	:	30 SF at 1/4" depth
Bulk Pack	:	300 SF at 1/4" depth

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 20°F.

1. New concrete should be allowed to cure a minimum of 28 days and/or be checked with a rubber mat or plastic sheet to insure adequate curing times 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 ingredients should be mixed in the prescribed ratios, using a low speed mixer, (maximum 750 rpm), until uniform in color and consistency. Mix Part A and Part B and then slowly add aggregate and pigment. Mixing should be done outside the cooler or freezer.
4. Contents must be emptied quickly onto the floor.
5. Do not mix less than the prescribed amount of any ingredient or add any solvent to the mix.
6. Apply with screeds or notched trowels to a minimum thickness of one quarter inch. As cold temperature applications result in higher viscosities, removing some of the aggregate is oftentimes desirable.
7. After the finish troweling, the surface may be backrolled with a short nap roller to remove blemishes. The roller can be slightly damp with icewater or isopropyl alcohol.
8. A suitable aggregate may be broadcast onto the surface prior to backrolling to provide 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 cream and/or gloves should always be used. Clean-up can be done with hot soapy water before the material starts to set. Once the material has set it can only be removed with a paint stripper.

Product Specification

The specified area shall receive an application of **ICO Guard Cold Cure™** 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, three part, solvent free, 100% solids epoxy system with moderate resilience to resist thermal and mechanical shock. It should be trowel applied normally at 1/4" thickness in one application without needing a topcoat. It shall be a resin-rich mix ratio of 2.5:1, ICO-Fill aggregate to resin and hardener. It shall have an elongation of 9% in the unfilled form when tested using ASTM D683. The system shall be usable down to temperatures down to 20°F. It shall be water wipeable and have excellent adhesion to wood, metal, tile, brick and damp as well as dry concrete. It shall be self priming except on surfaces with extreme porosity. The system shall be unaffected by oils and greases and have high chemical resistance against such acids as 36% hydrochloric, 30% nitric, 50% sulfuric, 30% phosphoric and 20% lactic. It shall resist such caustics as 50% sodium hydroxide and 26% ammonium 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 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 doing so, 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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