

## ICO-GEL

### Product Description

**ICO-GEL™** is a three part, 100% solids epoxy patching material primarily designed for vertical and overhead applications. Its smooth, creamy consistency enables the user to skim coat surfaces that are irregular or pockmarked. **ICO-GEL™** can fill holes up to 1" thick on vertical or overhead surfaces without shrinkage or sagging. For greater thickness, our **ICO Gel XT™** product can be substituted.

**ICO Gel** has virtually no odor and adheres well to damp as well as dry concrete and masonry surfaces. Unlike cementitious or acrylic-based patch material it can be recoated in as little as six hours after application at room temperature. For faster cure our **ICO Gel MC** and **ICO Gel FC** are

available; for applications temperatures below 50°F use **ICO Gel Cold Cure**.

### Product Application

**ICO-GEL™** is most commonly used to fill bug holes, crevices and cracks on vertical walls, as well as vertical stair repairs and concrete columns. **ICO-GEL™** also serves as a trowelled-on skim coat underneath our **ICO Glaze** wall coating system where an extra smooth surface is required. It can also be used to repair badly eroded manholes, sumps and sewers. **ICO Gel** is particularly suited for vertical and overhead repairs where constant dampness is present, such as bridges and dams.

### Chemical Resistance

**ICO-GEL™** is almost always coated with one of **International Coatings'** more chemically resistant coatings. A complete list is available in the **International Coatings Chemical Resistant Chart** or contact **ICO Technical Assistance**.

### Physical Properties

Tensile Strength (ASTM C-307)	: 1810 psi	Hardness, Shore D (D-2240)	: 80
Tensile Elongation, unfilled (D-638)	: 10%	Bond Strength to Quarry Tile	: > 1000 psi
Compression Strength (D-695)	: 6170 psi	Water Absorption	: 0.3% in 24 hrs.

### Physical Characteristics

	ICO-GEL™	ICO-GEL MC™		ICO-GEL FC™			
		By Vol	By Wgt	By Vol	By Wgt	By Vol	By Wgt
<b>Density, lbs/gal.</b>	<b>Mixing Ratios</b>						
Pt. A : 9.7	Pt. A : Pt. B	3.5:1	4.3:1	3.4:1	4.3:1	5:1	6:1
Pt. B : 8.0	Aggregate:Liquid	0.6:1	1.5:1	0.6:1	1.5:1	0.6:1	1.5:1
A&B Mixed : 9.3	<b>Curing Times @</b>		<b>32°F</b>	<b>40°F</b>	<b>50°F</b>	<b>77°F</b>	<b>90°F</b>
<b>Viscosity @ 77°F, cps</b>	<b>ICO-GEL™ -</b>	Pot Life	----	----	45min	40min	15min
Pt A : 38000		Working Time	----	----	65min	50min	40min
Pt B : 550		Hard, (for sanding)	----	----	72hrs	18hrs	10hrs
A&B Mixed : 4400	<b>ICO-GEL MC™ -</b>	Pot Life	----	----	45min	30min	10min
		Working Time	----	----	50min	40min	35min
		Hard	----	----	48hrs	10hrs	7hrs
<b>Shelf Life</b>	<b>ICO-GEL FC™ -</b>	Pot Life	----	----	10min	8min	5min
1 year at 77°F in		Working Time	----	----	40min	35min	25min
unopened containers		Hard	----	----	20hrs	8hrs	4hrs
	<b>ICO GEL Cold Cure -</b>	Pot Life	15min	15min	14min	----	----
Maximum Hardness achieved		Working Time	45min	40min	30min	----	----
after 7 days @77°F.		Hard	24hrs	20hrs	18hrs	----	----

### Color Availability

Standard color: Neutral. But can be ordered in white, concrete gray and beige.

### Packaging and Coverage Rates

3 Gal. Kit : 40 SF at 1/8" thick  
Bulk Pack : 400 SF at 1/8" thick

## **Installation**

Please refer to our Application Specs for detailed instructions. For application as part of our ICO Glaze® ES System, refer to the Application Spec Sheet "ICO Glaze® ES Wall Coating System". Particular care must be taken to follow those instructions precisely to assure proper installation.

1. All surfaces must be cleaned by acid etching, grinding, rough sanding or needle blasting. All loose or flaking coatings and other materials must be removed. All oils, fats, greases or chemically contaminated concrete must be removed.
2. No priming is necessary, as **ICO-GEL™** is a self-priming material.
3. Mix the contents of the Part A and Part B containers in a clean, plastic bucket with a slow speed paddle mixer or electric drill for about one minute. Then add in **ICO-GEL™ Flour** slowly for another minute or so, until the mixture is uniform in color and consistency. Only mix amount of material that can be applied within stated pot life
4. Use a clean margin trowel or spatula to apply the **ICO-GEL™**. The blade should be large enough to span the depression; use a 1-1/2" blade for filling cracks.
5. Press the **ICO-GEL™** firmly into place in a wiping motion. Use enough material to overfill the opening.
6. Under normal conditions, **ICO-GEL™** can be applied up to 1" depths without sagging. For greater thickness, use **ICO Gel XT** (up to 3" per pass).

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

## **Precautions**

1. Do not apply greater than 1" thick at 70°F; for greater thicknesses use Gel XT
2. Do not apply ICO Gel FC above 70°F
3. Do Not apply ICO Gel Cold Cure above 50°F
4. Recoat windows without sanding at 70°F: Gel – 18 hours; Gel MC – 10 hours; Gel FC – 6 to 8 hours

## **Product Specification**

The specified area shall receive an application of **ICO-GEL™** as manufactured by **International Coatings of Franklin Park, Illinois**. The material 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, 100% solids, three part epoxy system with bond strength exceeding 1000 psi on quarry tiles. It should be able to be applied on vertical surfaces up to 1" thick at 70°F in a single step application without sagging. The system must adhere to damp, as well as dry concrete. It shall be a resin-rich mixture, with an aggregate:liquid ratio not to exceed 1.5:1 by weight. The compressive strength when tested in accordance with ASTM C-579 shall not exceed 6200 psi and the tensile strength shall be 1810 psi when tested under ASTM C-307.

## **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.

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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 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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