

## ICO-GEL

### Product Description

ICO-GEL™ is a three part, 100% solids epoxy patching material primarily designed for vertical applications. Its smooth, creamy consistency enables the user to skim coat walls that are irregular or pockmarked. ICO-GEL™ can fill holes up to 1" thick on vertical or overhead surfaces without shrinkage or sagging. It 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 or colder temperatures our **ICO Gel MC** and **ICO Gel FC** are available.

### Product Application

ICO-GEL™ is most commonly used to fill bugholes, crevices and cracks on vertical walls prior to application of our more chemically resistant coatings. Such pre-filling of holes also help eliminate outgassing on subsequent coats. ICO-GEL™ also serves as a trowelled-on skim coat for our **ICO Glaze® ES** wall coating system where an extra smooth surface is required. It can also be used to repair badly eroded manholes, sumps and sewers, provided it is top coated before returning to service. For one-step vertical restoration, our **ICO Guard Liner** or **ICO Liner** material is recommended.

### Chemical Resistance

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

### 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

Density, lbs/gal.	Mixing Ratios	ICO-GEL™		ICO-GEL MC™		ICO-GEL FC™	
		By Vol	By Wgt	By Vol	By Wgt	By Vol	By Wgt
Pt. A : 9.7	Pt. A : Pt. B	3.5:1	4.3:1	4:1	5:1	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>50°F</b>	<b>77°F</b>	<b>90°F</b>	
<b>Viscosity@77°F, cps</b>	ICO-GEL™ -Pot Life		----	45 min.	40 min.	15 min.	
Pt. A : 38000	Hard, (for sanding)		----	72 hrs.	18 hrs.	10 hrs.	
Pt. B : 550	ICO-GEL MC™ - Pot Life		----	45 min.	30 min.	10 min.	
A&B Mixed : 4400	Hard		----	48 hrs.	10 hrs.	7 hrs.	
<b>Shelf Life</b>	ICO-GEL FC™ - Pot Life		20 min.	15 min.	15 min.	5 min.	
1 year at 77°F in	Hard		48 hrs.	24 hrs.	8 hrs.	4 hrs.	
unopened containers	Maximum Hardness achieved after 7 days @77°F.						

### Color Availability

Standard color: Neutral. But can be ordered in any of our standard colors.

### 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 Installation Guide 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. For application temperatures between 32°F and 50°F, use ICO-GEL FC™.

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.
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. If sagging occurs, use extra **ICO GEL Flour**, or a **cabosil-type product**.

## 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. Clean-up 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-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 77°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 0.6:1 by volume. 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.

## 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 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 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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