



**Resilient  
Epoxy  
Flooring  
and  
Grouting  
Systems**

# PRODUCT DATA SHEET

## ICO-PATCH

### Product Description

**ICO-Patch** is a three part, 100% solid epoxy patch material consisting of our **ICO Coat Clear** resin and **ICO Fill Patch** sand in a 10:1 mix, by weight. As such, it can be applied in virtually any thickness down to 1/4" in a single pass and be ready for service in as little as 10 hours @ 70°F. For faster cures, please see **ICO Quick Patch**. It provides an excellent wear surface with a compressive strength of over 10,000 psi.

As a heavily-filled system, it must be applied over a wet or tacky primer, **ICO Primer LV or LV FC**. In constantly damp areas, we recommend reducing the aggregate : liquid ratio to 8:1 to provide a more impervious surface.

### Product Application

**ICO-Patch** is primarily designed for use as a low cost, high strength filler material for resloping or building up worn concrete floors or for filling deep holes. It is also ideal for building berms, curbs or pump bases, when use of conventional or polymer concrete is too time consuming. In corrosive environments, use of one of our more chemically resistant coatings or toppings as a sealer over the **ICO Patch** is recommended. See our **Chemical Resistance Chart** for exact product recommendation.

### Chemical Resistance

**ICO-Patch** is almost always coated with one of our more chemically resistant coatings or toppings. See **International Coatings Chemical Resistance Chart, or contact ICO Technical Service.**

### Physical Properties

|  |              |                         |                      |
|--|--------------|-------------------------|----------------------|
| Tensile Elongation, ASTM D-638 (neat resin): | 2.8%         | Hardness, Shore D       | : 80                 |
| Tensile Strength(ASTM C-307)                 | : 1690 psi   | Gardner Impact Strength | : 120 inch-pounds    |
| Compression Strength (D-695)                 | : 10,360 psi | Flammability(D-635)     | : Self Extinguishing |

### Physical Characteristics

| Mixing Ratios            | By Vol | By Wgt | Curing Times @      | 50°F  | 70°F  | 90°F     |
|--------------------------|--------|--------|---------------------|-------|-------|----------|
| Pt. A : Pt. B            | 2.2:1  | 2.5 :1 | Pot Life            | 35min | 30min | 20-25min |
| Aggregate:Liquid         | 6.3:1  | 10:1   | Working Time        | 40min | 30min | 15-17min |
| <b>Density, lbs/gal.</b> |        |        | Tack Free           | 18hrs | 8hrs  | 3hrs     |
| Pt. A                    | : 9.5  |        | Hard, Foot Traffic  | 28hrs | 10hrs | 6hrs     |
| Pt. B                    | : 8.4  |        | Hard, Truck Traffic | 30hrs | 18hrs | 10hrs    |

A&B Mixed : 9.1

#### Viscosity@77°F, cps

Pt. A : 800

Pt. B : 50

A&B Mixed : 450

**Maximum hardness achieved after 7 days at 77°F.**

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

### Color Availability

Standard colors: Unpigmented,  
Concrete Gray

### Packaging and Coverage Rates

#### Filled System (10:1)

|           |                    |
|-----------|--------------------|
| Basic Kit | : 24 SF at 1/4"    |
| Bulk Pack | : 240 SF at 1/4"   |
| Drum Kit  | : 2,400 SF at 1/4" |

## **Installation**

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

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 time.
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. Surface must have a minimum texture of 20-40 grit.
3. When used as a heavily aggregate-filled patch (usually at least 6:1 by volume, sand:liquid), **ICO Patch** must always be applied over a wet or tacky **ICO Primer LV** or **ICO Primer LV FC**.
4. The three ingredients should be mixed in the prescribed ratios, using a low speed, paddle-style mixer (maximum 750 rpm), until uniform in color and consistency.
5. Do not mix less than the prescribed amount of any ingredient or add any solvent to the mix.
6. The prepared mix may be spread using screed strips, gauge rakes or notched trowels. Fill holes flush to the surface of the surrounding area. One half inch is minimum thickness. Do not feather edge.
7. After finish trowelling the surface may be back rolled with a short nap roller to remove blemishes. The roller can be slightly damp with isopropyl alcohol to prevent pickup.
8. When used in an area subjected to constant washdowns, adjust aggregate : liquid ratio to 8:1 by weight.
9. For corrosive conditions, apply one of International Coating's more chemically resistant top coatings (see International Coatings Chemical Resistance Chart). Note, that because **ICO Patch** is porous, a grout coat thickened up with **ICO Thickener** or Cab-O-Sil should first be applied, followed by a second top coat.

**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 below 50°F**
2. **Must be applied over wet or tacky primer**
3. **In areas subjected to chemicals and/or washdowns, must be sealed with one of ICO's more chemical resistant toppings**
4. **Do not apply less than a ¼"**

## **Product Specification**

The specified area shall receive an application of **ICO-Patch** 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, three part, solvent-free 100% solids epoxy system specifically designed for economically filling depressions and deep holes or sloping floor surfaces to insure proper drainage before the application of a finish coating or overlayment. It must be able to be applied at any thickness over 1/2", in one application, without developing shrinkage cracks. It shall be a mix ratio of 10 parts **ICO Fill Patch** sand to one part of resin and catalyst by weight. It must have a minimum compression strength of 10,000psi, as measured by ASTM D-695.

## **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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