

# ICO-PATCH

## Product Description

**ICO-Patch** is a three part, 100% solid epoxy patch material consisting of our **ICO Coat** 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 1/2" in a single pass and be ready for service in as little as 22 hours @ 70°F. For faster cures, please refer to **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 *(All properties listed are for regular cure unless otherwise noted)*

Density, lbs/gal.	Mixing Ratios	<u>By Vol</u>	<u>By Wgt</u>	
Pt. A : 9.3	Pt. A : Pt. B	3:1	3.3 :1	
Pt. B : 8.3	Aggregate:Liquid	6.3:1	10:1	
A&B Mixed : 8.0				
	Curing Times @	50°F	70°F	90°F
Viscosity@77°F, cps	Pot Life	75min	40min	30min
Pt. A : 800	Working Time	100min	80min	60min
Pt. B : 50	Tack Free	30hrs	10hrs	4hrs
A&B Mixed : 450	Hard, Foot Traffic	48hrs	22hrs	8hrs
	Hard, Truck Traffic	64hrs	30hrs	12hrs

Maximum hardness achieved after 7 days at 77°F.

## Color Availability

Standard colors: Unpigmented,  
Concrete Gray

## Shelf Life

1 year at 77°F in unopened containers

## 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 installation Guide for detailed instructions. Particular care must be taken to follow those instructions precisely to assure proper installation. **Do not apply below 50°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 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 water use, 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.

## ***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-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.

## ***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.**