

ICO-FLOOR PATCH KIT

Product Description

ICO-Floor Patch Kit is a three-part epoxy patch material designed for repairing spalled or gouged concrete. As an epoxy it has excellent adhesion and provides far superior abrasion and chemical resistance than cementitious materials.

As a 100% solids, solvent-free material it can be applied in a single pass in virtually any thickness down to about 3/16". Applied at an average thickness of 1/4", its coverage is approximately 20SF. And because it is a "resin-rich" mix it requires no primer or top sealer coat. It can be returned to service in 8 hours at 70°F

It is particularly suited for use in areas seeing heavy traffic, battery acids, gasoline, oils and lubricants, as well as virtually all caustics. As a flexibilized epoxy it can also withstand impact, vibration and thermal shock better than cementitious patch materials and more brittle, conventional epoxies. Typical applications include loading docks, aisle ways, auto/truck service bays, machine shops, and any wet processing facilities such as commercial laundries and car washes.

Physical Properties

Compressive Strength (ASTM C-579)	: 8320psi
Tensile Strength (ASTM C-307)	: 1910psi
Impact Strength (ASTM D-2794)	: >160 inch-pounds
Bond Strength to Concrete	: >450psi (Cohesive failure)

Technical Properties

Mixing Ratios	By Volume	By Weight	Curing Times @	<u>50°F</u>	<u>70°F</u>	<u>90°F</u>
A : B	2:1	2.5:1	Pot Life	40 min	25 min	12 min
Fill : Liquid	3:1	5:1	Work Time	20 min	20 min	15 min
			Hard, Foot Traffic	16 hrs	8 hrs	5 hrs

Shelf Life

1 year in unopened containers if stored at 50 - 80°F

Color Availability

Light Gray(101), Medium Gray(102), Brick Red(103) and Beige(104)

Kit Contents (packaged in 5 gallon pail)

1/2 Gallon Part A Resin
1 Quart Part B Hardener
33 lbs. Special Aggregate Blend with dry tint

Installation

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

1. Remove any surface impurities, such as oils, grease, etc. by citric cleaner or caustic. Then rinse thoroughly.
2. Obtain clean, slightly roughened surface (similar to 40 grit or coarser sandpaper) by diamond grinding or acid etch (muriatic, phosphoric or citric acid). If acid etch, surface must be scrubbed with stiff brush, followed by a thorough rinsing.
3. No priming necessary
4. Remove individual contents from the 5 gallon bucket. Add Part A resin and Part B hardener and mix for approximately 30 seconds at a low to medium speed (<750rpms), using a variable speed, 1/2hp drill with a "jiffy-style" mixer. Then slowly add entire contents of fill, which contains dry pigment, and continue mixing until thoroughly uniform in color (about 30 - 60 seconds). **NOTE:** Use all the contents of the containers as they are premixed for the correct mixing ratios.
5. Dump contents onto floor where patching is required and spread with a steel trowel to level with surrounding surface. Do not feather edge and do not over trowel. Slightly lubricate trowel with isopropyl alcohol to facilitate trowelling. Allow mix to set 5 to 10 minutes then use a slightly moistened roller (with IPA) to remove trowel marks and bring resin to surface. Broadcast in silica quartz to achieve desired texture, if as-trowelled surface too slick.
6. Do not apply below 50°F.

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

Cleaning Instructions

Clean up can be accomplished with warm, soapy water or with mineral spirits. Do not allow epoxy to dry hard on tools, otherwise a paint stripper will have to be applied

Safety Precautions

Epoxies can cause skin sensitization in some people, so plastic gloves should be worn when mixing or applying. Wear safety goggles to prevent any liquid from getting into eyes. No special ventilation is required. Consult MSDS for additional information.

Disposal

The plastic containers can be safely disposed of in regular trash bins. If any liquid is leftover, it is best to set off the A and B in the proper ratio, let it cure and dispose of as an inert material in trash bin. Caution should be exercised not to set off material in large quantities as significant heat is given off. Always have sand nearby to help "cool" the reaction if it starts to smoke.

Mission Statement

Our mission is to provide our customers the highest 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 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.

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2925 Lucy Lane • Franklin Park, IL 60131 • 847.451.0279 • 800.624.8919 • FAX 847.451.0379

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