



# ICO Guard Patch Kit

## Product Data Sheet

### Product Description

**ICO-Guard Patch Kit** is a three-part epoxy patch material designed for repairing spalled or badly damaged concrete, especially in food and beverage processing areas seeing constant wash downs, harsh cleaners and severe thermal shock. It has excellent adhesion to both damp and dry masonry surfaces, including concrete, tile, brick, wood and metal surfaces.

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", kit 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.

As a flexibilized epoxy it can withstand impact, vibration and thermal shock (including steam cleaning) better than more brittle, conventional epoxies. Typical applications include kitchen floors, bottling facilities, meat, poultry and dairy facilities, breweries and wineries. As a USDA approved material this is a non-toxic, odorless product that will not have any adverse effects on products or personnel, making it ideal for use by plant maintenance personnel.

### Physical Properties

<b>Compressive Strength (ASTM C-579):</b>	5170 psi
<b>Tensile Strength (ASTM C-307):</b>	2030 psi
<b>Impact Strength (ASTM D-2794):</b>	>160 Inch Pounds
<b>Bond Strength to Concrete:</b>	>450 psi (Cohesive Failure)

### Technical Properties

Mixing Ratios	By Volume	By Weight
<b>A : B</b>	2.6:1	2.9:1
<b>Fill : Liquid</b>	3.3:1	5:1

Color Availability:
Light Gray (101), Medium Gray (102), Brick Red (103), and Beige (104)
<b>Shelf Life:</b> 1 year at 50°F-80°F in unopened containers.

Kit Contents (Packaged in 5 gallon Pail)
½ gallon Part A Resin
1 Quart Part B Hardener
33 lbs. Special Aggregate Blend with Dry Tint

Curing Times @	40°F	50°F	70°F
<b>Pot Life:</b>	50 min.	45 min.	30 min.
<b>Work Time:</b>	60 min.	20 min.	20 min.
<b>Hard, Foot Traffic:</b>	28 hrs.	18 hrs.	8 hrs.

### 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. 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 20 grit or coarser sandpaper) by diamond grinding or acid etch (muriatic, phosphoric or citric acid). If acid etched, surface must be scrubbed with stiff brush, followed by a thorough rinsing.
3. No priming is necessary
4. Remove individual contents from the 5 gallon bucket. Add Part A and Part B 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 patch 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.

**Failure to follow the above instructions, unless expressly authorized by a Milamar 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.

## **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.

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.

## **LIMITED WARRANTY**

Milamar Coatings products are manufactured to be free of defects in material and workmanship in meeting the properties specified on its

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