



# ICO Flexi Coat

## Product Data Sheet

### Product Description

ICO Flexi-Coat is a 100% solids, two part, flexibilized epoxy coating that provides an impervious barrier to moisture, salt, caustics and low to medium concentrations of most inorganic acids as well as fuel oils, gasoline and diesel fuel. As an epoxy, it has inherently superior adhesion, both to damp as well as dry substrates, compared to elastomeric membrane coatings and with an elongation of 30%, ICO Flexi-Coat has much better crack and impact resistance than more brittle conventional epoxy overlays.

ICO Flexi-Coat is applied by roller, squeegee or spray over a clean abraded substrate and dries hard in 15 hours at 70°F. A minimum, two-coat, 20 to 30 mil thick system is recommended for normal driving traffic. For enhanced traction, silica sand or aluminum oxide is broadcast into the base coat or top coat.

### Typical Applications

ICO Flexi-Coat recommended in areas seeing a high degree of vibration, such as mezzanine decks, ramps and around vibrating equipment. It is also an excellent covering for concrete with numerous hairline cracks (cracks > 1/8" should be pre-filled with our ICO Gel). For outside bridge decks, our ICO Flexi-Coat BD is recommended.

### Physical Properties

<b>Tensile Strength ASTM D-638:</b>	2507 psi	<b>Water Absorption ASTM D-570:</b>	0.2% loss in 7 days
<b>Tensile Elongation D- 638 (neat resin):</b>	30%	<b>Hardness, Shore D</b>	72
<b>Bond Strength to Concrete:</b>	>450 psi (concrete failure)	<b>Gardner Impact Strength</b>	160 inch lbs.

### Physical Characteristics

Density, lbs./gal		Viscosity @ 77°F, cps	
<b>Part A:</b>	9.7	<b>Part A:</b>	4500
<b>Part B:</b>	8.2	<b>Part B:</b>	450
<b>A&amp;B Mixed:</b>	9.25	<b>A&amp;B Mixed:</b>	2200
Curing Times		50°F	70°F
<b>Pot Life:</b>	30 min	20 min	10 min
<b>Working Time:</b>	40 min	35 min	15 min
<b>Tack Free:</b>	12 hrs.	5 hrs.	90 min
<b>Hard, Foot Traffic:</b>	24 hrs.	8 hrs.	5 hrs.
<b>Hard, Truck Traffic:</b>	30 hrs.	15 hrs.	6 hrs.

A:B Mixing Ratios	
By Volume	By Weight
<b>2.2:1</b>	<b>2.6:1</b>

Color Availability	Packaging and Coverage Rates (@10mils)	
Available in Standard colors & clear.	4 Gallon Kit:	640 SF
	20 Gallon Bulk Kit:	3,200 SF
	100 Gallon Drum Kit:	16,000 SF
Shelf Life: One year if stored between 60°F and 80°F in unopened containers.		

### Installation

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

- Mechanically shot blast floor to provide a minimum 30 - 40 grit profile.
- Fill all spalled areas at least 1/2" in depth with **ICO Quick Patch** (for holes < 1/2" in depth use **ICO Gel** or **Flexi-Coat w/aggregate**). Allow to dry tack free.

3. All cracks  $\frac{1}{8}$ " in width or greater should be routed out in a V-notch and filled flush to surface with **ICO Gel**. Allow to dry tack free.
4. No priming is necessary; however, priming with **ICO Primer LV** or **LV FC** on damp or new concrete is recommended.
5. Add Parts A and B together in the prescribed ratio in a mixing bucket and mix for at least 30-60 seconds at low speeds (<750rpm), then immediately pour onto floor in a ribbon pattern then spread with a notched rubber at 160SF/gal/coat for 10 mils coverage.
6. A second coat, also at 160SF/gal (10 mils) is recommended for optimal protection.

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

#### **Precautions**

1. Do not apply below 50°F.
2. Recoat window at 70°F: 16 hours.
3. For better UV resistance, coat with one of our urethane top coats.

#### **Product Specification**

The specified area shall receive an application of ICO Flexi-Coat as manufactured by Milamar Coatings LLC. of Oklahoma City, Oklahoma. 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, two part, 100% solids epoxy coating with a minimum tensile elongation of 30% (neat resin) and a minimum tensile strength of 2500psi, as measured under ASTM D-638. It shall be capable of being applied up to 20mils per application and cure hard within 15 hours @ 70°F. It shall have a minimum bond strength of 450psi to concrete with cohesive failure. The data statements and

recommendations set for 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 individual Product Data Sheets. Users and installers of Milamar Coatings products are solely responsible for determining the suitability of the products for specific product applications. Milamar Coatings makes no Warranty or Guarantee, express or implied, including warranties of fitness, design compatibility or merchantability, for any particular use and shall have no responsibility or liability, including direct, indirect or consequential damages, due to injury, delay or third party claims for installation or repair. Likewise, Milamar Coatings assumes no liability of any nature for products that are adjusted in the field or that do not utilize all specified Milamar Coatings components. Should any Milamar Coatings product be proved to be defective within one year from the date of shipment, Milamar Coatings will, at its sole discretion, either replace the material; issue a credit to the customer's account; or provide a cash refund for the initial, paid purchase price of the material. Potential claims regarding product quality must be received in writing by Milamar Coatings within 30 days of the discovery of such potential defect. This Warranty is exclusive of all other warranties, expressed or implied, and may only be adjusted in writing, signed by an officer of Milamar Coatings, L.L.C.

#### **Milamar Coatings, L.L.C.**

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