



# ICO Floor Coating SY

## Product Data Sheet

### Product Description

ICO Floor Coating SY™ is a two part, 100% solids epoxy coating designed for use as a safety striping material. Available in a safety yellow or green, royal blue or cherry red, it is normally applied in one coat at 15 mils. It dries to a high gloss finish in as little as 3-4 hours at 75°F, using our "XFC" version. Use of special fillers enhances the abrasion resistance, enabling this material to far outlast conventional line striping.

### Typical Application

ICO Floor Coating SY™ is normally used to provide permanent line striping or safety island coatings. For enhanced cleanup a clear top coat of ICO Sealer is recommended. For coating wider areas, order ICO Floor Coating in the desired color without the fillers.

### Chemical Resistance

ICO-Floor Coating SY™ is recommended for areas subject to such chemicals as battery acids, Skydrol, caustics, gasoline, brake fluids and some solvents. A complete chemical resistance guide can be found in the Milamar Coatings Chemical Resistance Chart under "ICO FLOOR".

### Physical Properties

<b>Hardness, Shore D (ASTM D-2240):</b>	78
<b>60° Gloss:</b>	80
<b>Gardner Impact Strength:</b>	80 inch pounds
<b>Bond Strength to Concrete:</b>	>400 psi (concrete fails)
<b>Taber Abrasion (D-1044) cs17, 1000g, 1000 cycles:</b>	60 mg loss

### Physical Characteristics

Density, lbs./gal		Viscosity @ 77°F, cps	
<b>Part A:</b>	14.72	<b>Part A:</b>	6,400
<b>Part B:</b>	8.55	<b>Part B:</b>	520
<b>A&amp;B Mixed:</b>	13.63	<b>A&amp;B Mixed:</b>	3,240

ICO Floor Coating SY		
Mixing Ratios	By Volume	By Weight
<b>Part A: Part B, RC</b>	3.41:1	5.87:1
<b>Part A : Part B, FC</b>	3.22:1	5.76:1
<b>Part A : Part B, XFC</b>	3.41:1	5.63:1

Material	Curing Times	32°F	50°F	77°F	90°F
ICO Floor Coating, SY	Pot Life	---	60 min	40 min	20 min
	Hard, Foot Traffic	---	24 hrs.	10 hrs.	6 hrs.
ICO Floor Coating SY, FC	Pot Life	---	20 min	15 min	---
	Hard, Foot Traffic	---	18 hrs.	6 hrs.	---
ICO Floor Coating, SY, XFC	Pot Life	20 min	15 min	10 min	---
	Hard, Foot Traffic	24 hrs.	12 hrs.	3 hrs.	---

Maximum hardness and chemical resistance are achieved after 7 days at 77°F  
**Shelf Life:** 1 year at 77°F in unopened containers.

Color Availability	Packaging and Coverage Rates	
Safety Yellow, Safety Green, Cherry Red, Royal Blue and White	<b>1 Quart Kit:</b>	75 LF, 4" stripe
	<b>1 Gallon Kit:</b>	300 LF, 4" stripe

### 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 ensure adequate curing time has occurred.
2. All surfaces to be covered should be clean, abraded (to at least a 40 grit sandpaper finish) and free of grease, oils and other contaminants. All old paint should be removed.
3. For striping, tape both sides of the designated area prior to application.

4. Mix Part A first for at least 1 minute to thoroughly disperse the inert fillers which might have settled. Add Part B and mix for another 30-60 seconds with a helical blade until color is uniform.
5. No priming is necessary unless the concrete is unusually porous, in which case ICO Primer LV FC can be applied and allowed to dry tack free.
6. Apply ICO Floor Coating SY™ with a brush or 1/4"-3/8" nap roller at a coverage rate of 300 LF/gal @ 4" wide. Make sure the mix is kept well stirred to avoid excessive settling of the fillers. Note: for "XFC" version, we recommend using only a small quantity at a time and if possible, pour out onto floor in a ribbon fashion to prolong the pot life.
7. Remove tape before the coating has cured.

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

#### **Precautions**

1. Contains pre-added filler; use only as line striping material.
2. Must stir Part A thoroughly before adding Part B.
3. Do not use ICO Floor Coating SY Regular Cure and Fast Cure less than 50°F.
4. Because of fast working times, do not use ICO Floor Coating SY XFC above 50°F.

#### **Product Specification**

The specified area shall receive an application of ICO-Floor Coating SY™ 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 100% solids, odorless epoxy with no toxic byproducts. The material must adhere to either damp or dry surfaces of 400 psi (concrete fail first). The film hardness should be a Shore D 78 and shall have a Taber Abrasion Reading of 60mg. It shall be applicable in a single pass to a minimum of 15 mils DFT. It shall resist chemical attack for up to seven days from such chemicals as Skydrol, 20% sulfuric acid, caustics and bleach.

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 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.**

[www.milamar.com](http://www.milamar.com) | 800.459.7659

311 NW 122<sup>nd</sup> St., Suite 100

Oklahoma City, OK 73114