



ICO Primer LV

Product Data Sheet

Product Description

ICO-Primer LV is a low viscosity, two part, 100% solids epoxy primer. It is virtually odorless and non-toxic. **ICO Primer LV** has excellent damp, as well as dry adhesion to concrete, masonry surfaces, wood and gyp board. (For priming metal, we recommend our **Rust Guard** Coating). With a very low viscosity of 250 centipoise, it readily penetrates porous substrates to provide an excellent mechanical bond. Such a highly penetrating primer has also been found effective in sealing the concrete to help prevent outgassing. Where faster curing times are required, specify **ICO Primer LV FC**. For application between 32°F and 50°F, our **ICO Primer XFC** material should be used. For vertical surfaces, our **ICO Primer XT** is preferred.

Product Application

ICO-Primer LV must be applied before using our **ICO Patch** (at a 10:1 mix) and our **ICO Coat 81** trowelled material (at an 8:1 aggregate : liquid mix). The primer should be allowed to tack up prior to application of the top coat. For all our other self-priming floor toppings and coatings, our primers should be allowed to dry tack free to maximize its effectiveness in sealing the concrete to reduce any possible outgassing. **ICO Primer LV** can also be used as a penetrating concrete sealer to prevent dusting and moisture penetration.

Physical Characteristics

Density, lbs./gal.	Pt. A	Pt. B	A&B Mixed
ICO Primer LV	9.52	8.01	9.22
ICO Primer LV FC	9.52	8.22	9.32

Viscosity@77°F, cps	Pt. A	Pt. B	A&B Mixed
ICO Primer LV	476	60	250
ICO Primer LV FC	476	60	250

Mixing Ratios (Part A: Part B)

	By Vol.	By Wt.
ICO Primer LV	3.4444:1	4.10:1
ICO Primer LV FC	4.63:1	5.37:1
ICO Primer FC	2.74:1	3.08:1
ICO Primer XFC	2.51:1	2.67:1
ICO Primer XT	3.49:1	4.19:1

Packaging and Coverage Rates

	ICO Primer LV & LV FC	ICO Primer FC, XFC & XT
4 Gallon Kit:	1000 SF	800 SF
20 Gallon Kit:	5000 SF	4000 SF
100 Gallon Drum Kit:	25,000 SF	20,000 SF

Curing Times@:		40°F	50°F	70°F	90°F
ICO Primer LV	Pot Life:	---	35 min.	25 min.	15 min.
	Work Time:	---	85 min.	85 min.	50 min.
	Tack Free:	---	40 hrs.	10 hrs.	5 hrs.
	Set Hard:	---	72 hrs.	18 hrs.	9 hrs.
ICO Primer LV FC	Pot Life:	---	10 min.	9 min.	9 min.
	Work Time:	---	30 min.	30 min.	10 min.
	Tack Free:	---	18 hrs.	5 hrs.	2 hrs.
	Set Hard:	---	30 hrs.	9 hrs.	4 hrs.
ICO Primer FC	Pot Life:	25 min.	20 min.	17 min.	---
	Work Time:	28 min.	25 min.	25 min.	---
	Tack Free:	16 hrs.	8 hrs.	2 hrs.	---
	Set Hard:	36 hrs.	24 hrs.	8 hrs.	---
ICO Primer XFC	Pot Life:	20 min.	15 min.	---	---
	Work Time:	22 min.	18 min.	---	---
	Tack Free:	16 hrs.	10 hrs.	---	---
	Set Hard:	36 hrs.	25 hrs.	---	---
ICO Primer XT	Pot Life:	---	35 min.	25 min.	15 min.
	Work Time:	---	85 min.	85 min.	50 min.
	Tack Free:	---	40 hrs.	10 hrs.	5 hrs.
	Set Hard:	---	72 hrs.	18 hrs.	9 hrs.

Maximum Hardness achieved after 7 days @77°F.

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 be checked with a rubber mat or plastic sheet to insure adequate curing time. If this is not possible, contact ICO Technical Service for further information.
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. The prepared surface should have a pH of 7.

3. Part A and B should be mixed in the prescribed ratio, using a low speed jiffy-style mixer (maximum 750 rpm), for at least 60 seconds.

4. **ICO Primer LV** is a 100% solids epoxy and no solvents are necessary.

5. Apply the mixed material with a fine nap adhesive roller, squeegee or brush. Apply at approximately 200-250 SF per gallon, depending on surface porosity.

6. Reprime any dry appearing areas.

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

Precautions

1. Primer LVFC very fast reacting; pour out of bucket immediately after mixing and spread with squeegee, especially at temps greater than 70°F

2. Only Primer FC and XFC can be applied below 50°F. Do not apply Primer XFC above 50°F

3. Recoat windows at 70°: Primer LV – 18 hours; LVFC – 10 hours; FC – 8 hours; XT – 18 hours, for expanding recoat window, broadcast in aggregate into primer.

4. Never apply Primer LV or LV FC more than 15 mils (100SF/gallon) per pass as it will not cure hard in greater thicknesses.

Product Specification

The specified area shall receive an application of **ICO-Primer LV** as manufactured by **Milamar Coatings LLC of Oklahoma City, Oklahoma**. The system shall be installed by precisely following the manufacturers published recommendations pertaining to surface preparation, mixing, and application. The material shall be a low odor, solvent free, 100% solids epoxy primer with excellent adhesion to damp as well as dry concrete, metal and wood. It should be able to adhere to brick and tile, exceeding 1000 psi on an Elcometer pull test.

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 numerous 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, 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.

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