

# ZeraPrime™ 100FS

*Fast-Setting 100% Solids Epoxy Primer*

## DESCRIPTION

ZeraPrime™ 100FS is a high performance, two-component, 100% solids, low viscosity epoxy primer for dry concrete surfaces.

## WHERE TO USE

ZeraPrime™ 100 FS is recommended for use with Zeraus™ epoxy flooring systems. Its low viscosity allows the primer to penetrate deep into the concrete surface to seal the concrete from out-gassing.

## BENEFITS

- 100% solids, low odour, contains no solvents or hazardous fumes
- Easy to use; fast dry (6 hours)
- Excellent blush resistance
- Excellent adhesion to concrete and steel
- Its versatility permits use for numerous applications

## Handling Properties @ 23°C (74°F)

Mix Ratio, by volume	2 parts A: 1 part B
Mixed viscosity	600 cps
Density (mixed)	1.13 kg/litre (9.4 lb./US gal)
Pot Life	30 minutes
Re-coat time	6 hours
Vehicular traffic	12 hours
Full Cure and Maximum Resistance	7 days

## APPLICATION

### SURFACE PREPARATION

ZeraPrime™ 100FS should be applied over clean, sound, dust free surfaces. For best results, surface should be prepared as follows:

#### Concrete (New):

Shot blast or equivalent to remove surface laitance, curing compounds or form oils. Concrete should be minimum 28 days old or have 3% or less moisture content. Moisture content can be determined using the test method ASTM D4263.

#### Concrete (Old):

Remove oil, grease, dirt and any unsound concrete using a combination of commercial de-greasers, alkaline wash and shot blasting. A combination of acid-etching and power wash can also be used. Cracks and surface defects

should be repaired prior to the application of coating.

#### Steel:

Remove greases, oils and contaminants from surfaces and sandblast to white metal.

## MIXING

The mixing equipment used to mix the primer must be clean and free of any contaminants that may be present in the equipment from previously used products. Combine Part A and B together in the mixing container. A 'Jiffy Mixer' or a mud mixer on a slow speed drill is the preferred method of mixing. Mix the blended components for 2 minutes; scrape the sides while mixing to ensure uniform mixing.

## OFF-GASSING

The off-gassing is not a by-product of ZeraPrime™ 100FS, but of the displacement of air in the concrete. It depends on the density/PSI (compressive strength of the concrete); the lower the psi and/or water added to the concrete during pouring, the more off-gassing in the concrete. If the concrete is spongy or very porous, it is recommended to apply the primer very thin with a flat squeegee and pull it tight to the surface with a flat squeegee. If you need to have a thicker film to smoothen the concrete, it is recommended after the first pass, to apply wet on wet (the initial thin coat) within ½ hour at 8 mils film thickness. It is recommended to add 2% of ZeraSolv only in the first coat to facilitate the penetration.

## APPLICATION

Pour a workable amount of the mixed primer onto the prepared substrate and spread the material evenly with a flat squeegee. Using a lint-free 6 mm nap roller, back roll the applied material to provide an even coat. Care should be taken not to over-roll the material as air may become entrapped in the coating.

## LIMITATIONS

- Do not apply ZeraPrime™ 100FS if the substrate and ambient temperatures are below 10°C (54°F)
- Do not use for exterior applications or for repairs applied underwater

**COVERAGE**

Based on 5 mils thickness per coat:  
8 m<sup>2</sup>/liter (320 ft<sup>2</sup>/U.S. gallon)

**PACKAGING**

11 litre (2.9 U.S. gal.) units  
56.7 litre (15 U.S. gal.) units

**CLEAN UP**

Clean all tools and equipment with ZeraSol™ (low odour and non-air pollutant solvent), xylene or acetone prior to the material setting.

**SAFETY PRECAUTION**

Consult the Material Safety Data Sheet (MSDS) for specific instructions.

**STORAGE**

Store in a heated warehouse. Do not freeze.

**SHELF LIFE**

Two years from the date of manufacture if kept in the original unopened containers under normal heated warehouse conditions.

**WARRANTY**

“The recommendations made and the information herein is the result of accurate laboratory and field tests under controlled conditions. We guarantee that the quality and properties of the materials supplied conform to our standards. Zeraus Products Inc. makes no warranties, expressed or implied, as uses and applications are beyond our control. Zeraus Products Inc. shall not be liable for any injury, loss, or damage (direct or consequential) arising from use or inability to use the products. Before using, the user is urged to pre-test the products in his/her own environment to determine the suitability of the products for their intended use, and the user assumes all risk and liability whatsoever in connection therewith.

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