

# ZeraKlear™ FC

## *Fast Setting Clear Epoxy Primer/Coating*

### DESCRIPTION

ZeraKlear™ FC is a unique, versatile, 100% solids, clear epoxy primer/coating for concrete substrates, which exhibits an extremely rapid cure, even at low temperatures unlike other fast curing products on the market.

ZeraKlear™ FC may be used alone or in combination with a **Zeraus Epoxy Colour Additive** to provide a very fast setting, attractive, coloured epoxy primer/coating finish.

### WHERE TO USE

ZeraKlear™ FC is a fast setting primer/coating which makes it ideal for quick turnaround projects. It can be used alone or in combination with epoxy topcoats such as the ZeraDur™ line of coatings. This product is also recommended for decorative floorings, low temperature applications, marine environments, mining, industrial warehouses, and etc.

### BENEFITS

- 100% solids, with no offensive odors, zero VOC's
- Excellent adhesion to concrete
- Re-coat time of 4 hours @ 23°C
- Cures as low as 5°C (41°F)
- Fast development of strength; shore hardness of 82D in 16 hours @ 15°C (59°F)

### HANDLING & CURING PROPERTIES @ 23°C (74°F)

|   |                               |
|---|-------------------------------|
| Mix Ratio, by volume .....                  | 2 parts A: 1 part B           |
| Viscosity (Mixed).....                      | 1,100 cps                     |
| Mixed Weight (Density)..                    | 1.1 kg/litre (9.1 lb./US gal) |
| Gel Time (200 gm) .....                     | 14 mins                       |
| Re-coat time (foot traffic) .....           | 4 hours                       |
| Vehicular Traffic.....                      | 8 hours                       |
| Full Cure and Maximum Resistance .....      | 3 days                        |
| Pull Out Tensile Adhesion to concrete ..... | 500 psi                       |
| (ASTM D4541) .....                          | (Concrete Failure)            |

### SURFACE PREPARATION

New concrete must be cured for a minimum of 28 days before applying ZeraKlear™ FC. The substrate must be above 5°C (41°F) and must be free of all dirt, waxes, previously applied coatings, oil, grease, laitance and any foreign matter that may interfere with the bond of the primer to the prepared substrate. Cracks and surface defects should be repaired prior to the application of the primer. All concrete and steel surfaces to be coated should be shot blast or mechanically cleaned to provide a clean tooth for the primer application. If acid etching is the method of choice for preparation of the concrete surface, the etched surface must be thoroughly flushed and dry prior to application of the primer.

### 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. Mix component A first to eliminate the possibility of settlement. Pour all of the liquid from Part A and Part B into 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. **If a colour is required, the appropriate Zeraus Epoxy Colour Additive is added to component A only at 0.48 - 0.95 litres (0.5 - 1 quart) of colour additive per 18.9 litres (5 U.S. gal) of component A depending if it is to be used as a primer or as a coating. NOTE: Do not count the Epoxy Colour Additive in the volume ratio.**

### APPLICATION

#### As a Floor Primer and Coating:

Once the two components are mixed, immediately pour it onto the prepared substrate and spread the material evenly with a flat squeegee. **DO NOT LEAVE MIXED MATERIAL IN THE CONTAINER.** 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. The crew must

move fast with the application due to the rapid setting nature of the product. If someone works alone, mix small quantities at a time so you are able to handle it.

**As a Patching Material:**

**ZeraKlear™ FC** may be used for small patching (deep holes, or large cracks) by combining it with fine silica sand (70 mesh). Mix two parts of A to one Part of B thoroughly and blend with an equal amount of fine silica sand. Immediately pour the mixed material into the holes/cracks using putty knife to smooth the surface. Allow it to cure to a hard surface before grinding it. Please note ZeraKlear™ FC is not for large area patching due to the fast-setting nature of the product.

**LIMITATIONS**

- Do not use for exterior applications.
- Do not apply to damp concrete.
- Due to the rapid setting nature of the product, it is only designed for highly experience contractors.
- Do not apply thicker than a 10 mils dry film thickness.
- It may discolor (amber) upon exposure to UV light.

**COVERAGE**

Based on 5 mils thickness per coat:

8 m<sup>2</sup>/litre (320 ft<sup>2</sup>/U.S. gallon)

Based on 10 mils thickness per coat:

4m<sup>2</sup>/litre (160 ft<sup>2</sup> U.S. gal.) units

**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 xylene prior to the material setting.

**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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