



## TECHNICAL DATA SHEET

# EPR-100-FC Epoxy Primer

### Description

**EPR-100-FC** is a fast curing, two-component, epoxy primer with good penetrating properties for use on concrete and polymer-modified cementitious screeds. Two coats may be required to fully seal the floor. Epoxy resin is an excellent adhesive material, ideal for flooring application. **EPR-100-FC** is 100% solids, low viscosity, consisting of 2 pre-measured components.

**EPR-100-FC** is designed to improve the adhesion of floor toppings to the substrate. It adheres to concrete as a sealing product prior to treatment with seamless resin flooring products. Can be used as general surface scratch-coat (in combination with sand or fine quartz sands). It also acts as a very good primer for metal substrates that have been prepared correctly.

### Features & Benefits

- Amine Free.
- Nonylphenol free.
- 100% Solid.
- Seals concrete pores - reduces the potential for out-gassing and pin holing in resin floor finishes.
- Improves the adhesion of toppings to the substrate.
- Excellent combination of rapid cure and long pot-life.
- Excellent film quality even at low temperatures and high humidity.
- Moisture tolerant during cure.
- Excellent early water resistance.
- Very good chemical resistance.
- Good flexibility.
- Superior corrosion resistance.
- Based from natural, renewable, non-food chain raw material feedstock.

### Packaging Kit

5kg kit - Components A & B  
10kg kit - Components A & B  
15kg kit - Components A&B

### Coverage

Coverage varies widely due to the porosity and profile of different substrates.

1kg covers 3 to 4 m<sup>2</sup>.

\* Coverage figures given are theoretical. Practical coverage rates may vary due to wastage factors and site condition, profile, and porosity of the substrate.

### Substrate Requirements

Requirements as follows:

- The concrete substrate must be prepared mechanically to achieve an open texture surface using a captive shot blast machine or diamond grinding.
- Free from cracks and fissures. If any, they must be previously treated (we recommend Sindec Epoxy Crack Filler).
- Clean and dry, free of dust, loose particles, oils, organic residues, laitance, and contaminants.

\*Inadequate preparation will lead to loss of adhesion and failure.

### Tensile Adhesion Strength

>1.5 N/mm<sup>2</sup> to concrete

### Compressive Strength

>25 N/mm<sup>2</sup> to concrete

### Environmental Conditions

Optimum ambient temperature range is 15 – 25°C. Localized heating (electric powered warm air blower) or cooling equipment may be required outside this range to achieve ideal temperature conditions.

The substrate and uncured floor must be kept at least 3°C above the dew point to reduce the risk of condensation or blooming on the surface, relative humidity at less than 75%. (ideally between 50-65%) with a moisture content less than 5% from before priming, to at least 48 hours after application.

Installations outside of the above parameters will affect the cure period, surface finish and strengths.

### Mixing

Pour the hardener component B into the resin component A and mix both components for a minimum of 3 minutes using a low-speed paddle mixer (300-400 rpm). Use a spatula to scrape the sides and bottom of the bucket. To ensure proper mixing, pour the resin into a clean bucket and mix for 1 further minute.

### Product Application

Once mixed, the primer should be applied immediately in a thin continuous film. As a primer, 200 to 300g/m<sup>2</sup>. Work the primer into the surface using a squeegee, then roll to avoid pooling. On porous surfaces, **EPR-100-FC** will be absorbed very quickly, so use enough to ensure complete surface sealing. Two coats of **EPR-100-FC** must be applied to ensure a sealed surface.



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### Technical Information

|                             |  |  |
|-----------------------------|--|--|
| <b>Curing Schedule 20°C</b> | Touch Dry<br>Recoating<br>Fully Cure   | 5 - 7 hours<br>Within 12 hours<br>7 Days |
| <b>Shelf Life</b>           | Resin & Hardener:  | 12 Months                                |
| <b>Pot Life</b>             | Temp 20°C  | 15 - 20 Minutes                          |
| <b>Storage</b>              | This Product must be stored off the ground in original packaging, unopened and un-damaged. The ambient conditions must be dry and between 10°C and 30°C with no direct sunlight. Protect from frost. |  |

### Chemical Resistance

See Chemical Resistance Chart.

### Appearance

Amber liquid.

### Technical Advice

For further information on this or any other Sindec product, please contact our office.

### Limitations

Do not proceed with application if atmospheric relative humidity is, or is anticipated to be, >75% or if the surface temperature is <3°C above the dew point. Application should not commence when the substrate temperature or the ambient temperature is or is anticipated to be <10°C during the application or within the curing period.

The design strength of the substrate concrete surfaces must be a minimum of 25 N/mm<sup>2</sup> compressive strength at 28 days. Compact and cohesive pull of test must show a minimum resistance of 1.4 N/mm<sup>2</sup>.

### Disposal of Containers

Empty containers must be handled with the same precautions as if they were full. Treat empty containers as hazardous waste and transfer them to an authorized waste manager. If the containers still have some material left, do not mix with other product before considering the risk of potentially dangerous reactions.

Any remaining parts A and B of the same product should be mixed and allowed to cure before disposal.

### Health & Safety

Before using this product, please ensure that you have received and read the product Material Safety Data Sheet. Refer to the hazard labelling on the product. Always wear gloves and goggles and avoid contact with skin and eyes.

### Additional Information:

The information contained in this document, and all further technical advice given is based on our present knowledge and experience.

However, it implies no liability or legal responsibility on our part. No warranty or guarantee of product performance in the legal sense is intended or implied as the conditions of use and the competence of any labour involved in the application are beyond our control.

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