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FLORPRIME 112 FC

2 comp, fast cure EP primer, solvent free, whitish

PRODUCT DESCRIPTION

FLORPRIME 112 FC is a fast cure version of **FLORPRIME 112**. It is prefilled, solvent free, two component epoxy primer with whitish appearance.

FIELD OF APPLICATION

FLORPRIME 112 FC ia used as a primer to improve the concrete surface for optimum adhesion of industrial flooring system. It can also be used as a moisture barrier for concrete substrate with residual moisture content up to 6 CM%. It can be used on green concrete (7 days old) provided the concrete is produced using stringent water : cement ratio of 0.48 and finished with a bull float finish.

FEATURES AND BENEFITS

- **Excellent Adhesion** to concrete, asphalt, and most building materials and compatible to all other coating or topping systems.
- **Fast cure –** foot traffic after 4 to 8 hours.
- **Moisture tolerant** – suitable for substrate with moisture content up to 6 CM %.
- **High build** – ability to fill pores and bridge micro cracks.
- **Compatible to newly cured concrete** – can be applied to 7 days old concrete.
- **Low/no odour** – does not taint food.
- **Solvent free** – nonflammable, no free hazard.

TECHNICAL DATA

Solid content		%	99
Density	at 25 °C	g/cm^3	1.41
Viscosity	at 28 °C	mPas	1500-2500
Adhesive strength	concrete failure (according to DIN ISO 4624)	N/mm^2	>1.5
Working time	at 25 °C	minutes	20-25
Material consumption	per layer	g/m^2	300 – 500
Application temperature	min 3 °C above dew point	°C	10 – 30
Cure time to withstand :	at 25 °C,: foot traffic : heavy traffic : exposure to chemicals	After 4 to 24 hours after 3 days after 7 days	
Overcoating	at 25 °C	4 to 24 hours	
Packaging size	total size	**25 kg** (19 kg A + 6 kg B)	
Mixing ratio	component A : component B	by weight (kg)	100 : 32
Appearance	whitish		
Shelf life	12 months in closed original container		
Storage	dry and frost free at 10 – 30 °C, avoid direct sunlight		

Above figures are guide values and should not be used as a base for specifications!

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APPLICATION METHOD

1. Substrate preparation

The substrate must be firm, clean, dry and have a tensile strength of 1.5 N/mm² minimum.

Wet areas shall be dried with a blow torch. The moisture content in the substrate must not exceed 6 CM %. There should be no water pores.

New concrete must be allowed to cure for a minimum of 28 days. However, for bull float finish concrete with 0.48 : water : cement ratio, 7 days cure is adequate.

Repair imperfections (holes and cracks) with an epoxy patching compound such as **FLORPRIME 110** where necessary.

Remove surface laitance, contaminants, coating, curing compound and all weak and loose materials.

Prepare substrate by Captive Shot Blasting or Diamond Grinding to provide the appropriate surface profile for optimum mechanical keying.

No grinding or shot-blasting is necessary for bull float finish concrete with 0.48 water : cement ratio.

2. Application

Before starting the application, the material temperature must be close to the site conditions.

Empty contents of component B (Hardener) into component A (Base Resin). Mix with a suitable mixer at a speed of 500 rpm to avoid incorporating excessive air into the mix. Mix for 2 minutes.

Transfer the mixture into another clean container and mix for 1 minute. Allow a pre-reaction time of 5 minutes.

Spread the mixed product onto the surface with a squeegee and back roll with a roller at the consumption rate of 0.2 – 0.4 kg/m2 depending on the porosity of the concrete surface.

For substrate with residual moisture content up to 4 CM% applied only once. For substrate with residual moisture content above 4 and up to 6 CM%, apply twice.

The first layer must be applied with spatula at minimum consumption rate of 0.5 kg/m2, followed by a second layer at minimum consumption rate of 0.3 kg/m2. The first layer must not be sprinkled over with quartz sand.

The second layer can be rolled with a short pile roller 4 hours after the application of the first layer. Ensure that a film-forming, closed surface is produced.

To improve inter-layer adhesion, sprinkle **FLORTECH QS 0.3-0.8** quartz sand lightly (approx. 800 g/m² while the primer is still wet. If a two coat application, sprinkle **FLORTECH QS 0.3-0.8** quartz sand only on the second coat.

Reusable tools and contamination can be clean by using suitable solvents. Never use water as cleaner.

3. Overcoating

Overcoating must take place after 4 hours but within 24 hours after application of **FLORPRIME 112 FC**. If longer, the surface has to be lightly grinded before over-coating.

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