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FLORPRIME 500

2 comp, EP primer, concentrate, water-based

PRODUCT DESCRIPTION

FLORPRIME 500 is a two component, solvent free, water based, whitish and low emission epoxy primer concentrate. It must be diluted with water before the application.

FIELD OF APPLICATION

FLORPRIME 500 is used as primer for industrial flooring systems on concrete, magnesite substrate, and cementitious screeds.

FEATURES AND BENEFITS

- **High solids** – higher dry film thickness compared to traditional water based epoxy primer.
- **Low VOC emission** – less impact on air quality.
- **Good adhesion** – towards most building material or other coating systems.
- **Vapour permeable** – suitable for use on green concrete.
- **Low/no odour** – does not taint food.
- **Solvent free** – non flammable, non-toxic and environmentally friendly.
- **Easy application** – can be applied by roller for fast installation.

TECHNICAL DATA

Solid content	Concentrate : Diluted product :	%	80 65
Density	at 25 °C	g/cm^3	1.80
Viscosity	at 28 °C	mPas	200 – 400
Working time	at 20 °C	minutes	40
Application temperature	min 3 °C above dew point	°C	10 - 30
Cure time to withstand : Foot traffic	at 25 °C	hours	6 – 18
Adhesive strength	concrete failure (according to DIN ISO 4624)	N/mm^2	>1.5
Overcoating	at 25 °C	within 36 hours	
Packaging size	20 kg (17.8 kg A, 2.2 kg B) , add 3L of water		
Mixing ratio	(A : B) – 100 : 12.5 by weight + 16 parts of water		
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

Concrete substrate shall be firm, clean, and dry with a pull-off strength of 1.5 N/mm² minimum.

New concrete must be allowed to cure for a minimum of 28 days.

Repair imperfections (holes and cracks) with **FLORPRIME 110** where necessary.

Remove surface laitance, contaminants, coating, curing compound and all weak and loose materials. Prepare concrete surface by diamond grinding, scarifying or captive shot blasting to provide the appropriate surface profile for optimum mechanical interlocking.

Magnesite floors must be treated with a solution of citric acid, which must be washed off afterwards by using plenty of water.

2. Application

The material temperature must be close to the site conditions before starting the application.

Mix component B into component A with suitable mixer at 500 rpm for 2 minutes. Add 3 liters/kg of water into the material and mix again for 2 minutes.

Then, transfer the material into clean container and continue mixing for 1 minutes.

Spread the mixed material onto the surface with a squeegee and back roll with short nap roller.

Do not apply too thick and do not allow any puddling.

Allow proper ventilation to ensure that the relative air humidity does not exceed 85 % during application and curing as it will inhibit evaporation of water and affect cure.

A second coat of **FLORPRIME 500** may be necessary depending on the porosity of the substrate.

Water can be used for cleaning contamination and tools.

3. Overcoating

The following coat can be applied within 36 hour without grinding. The surface has to be grinded if time taken for overcoating is extended.

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