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FLORPRIME 110

2 comp, EP primer and binder for mortar, solvent free, transparent

PRODUCT DESCRIPTION

FLORPRIME 110 is a solvent-free, colourless, low viscosity two component epoxy binder designed for use with **FLORTECH QS 20** quartz sand to produce a seamless, heavy duty industrial floor which is easy to clean and exhibits excellent mechanical properties.

In general, epoxy resins are not colour stable if exposed to UV light or under influence of weathering. We recommend applying a colour stable sealer.

FEATURES AND BENEFITS

- **Chemical resistant –** resists dilute acids and alkalis, aliphatic solvents, and commercial cleaning agents.
- **Excellent adhesion** to concrete and most other coating or topping systems.
- **Abrasion / impact resistant** – hard wearing and durable.
- **High strength –** 65 MPa compressive strength.
- **Low / no odour** – does not taint food.
- **Solvent free–** non-flammable, no fire hazard.

FIELD OF APPLICATION

FLORPRIME 110 is used to produce a heavy-duty industrial flooring system for protection of concrete floor surface against harsh and aggressive service conditions such as mechanical abuses and chemical attacks.

It is widely used in food & beverage, dairy production, abattoirs, warehouse/distribution centres, assembly plants and factories.

FLORPRIME 110 can also be used as a primer for concrete or other hydraulic substrates.

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FLORTECH
FLOORING TECHNOLOGY

TECHNICAL DATA

Solid content		%	99
Density	at 25 °C	g/cm^3	1.09
Viscosity	at 28 °C	mPas	600-1000
Adhesive strength	concrete failure, according to DIN ISO 4624	N/mm^2	>1.5
Compressive strength	according to DIN EN 196	MPa	65
Working time	at 25 °C	minutes	20-25
Material consumption	primer : Mortar per mm layer thickness	g/m^2 kg/m^2	300 – 500 2.2
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 18 - 24 hours after 3 days after 7 days	
Overcoating	at 25 °C	within 24 hours	
Packaging size	total size	**30 kg** (20 kg A + 10 kg B) **67.5 kg** (5 kg A + 2.5 kg A + 60 kg C) **270 kg** (20 kg A + 10 kg B + 240 kg C)	
Mixing ratio	component A : component B	by weight (kg)	2 : 1 2 : 1 : 24 1 : 8
Appearance	transparent		
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 4 CM %.

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

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.

2. APPLICATION

Before starting the application, the material temperature must be close to 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 in- to the mix. Mix for 2 minutes.

Transfer the mixture into another clean container and mix for 1 minute.

As Primer :

The mixture is poured onto the surface in portions and spread with a squeegee and back rolled with a roller. The primer must be applied to be free of pores and form a film. Depending on the substrate a second coat application may be necessary.

To improve inter-layer adhesion, sprinkle **FLORTECH QS 0.2-0.5 mm** quartz sand lightly (approx. 600 g/m²) while the primer is still wet. If two coats of primer is necessary, this should be done on the second coat.

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As Mortar :

The filler **FLORTECH QS 20** is premixed dry in a forced action pan mixer. Then the mixed binder (see above) is added and mixed with the filler for minimum 3 minutes.

The mixing ratio of binder : filler is 1:8. The mortar is applied onto the primed surface at a minimum layer thick- ness of 6-8 mm using a pin rake or hand trowel and finished off by hand or 'helicopter'.

After the mortar has cured, apply 2 to 3 coats of **FLORPRIME 500 / FLORPRIME 110** using a squeegee and back roll with a roller.

Re-usable tools should be cleaned carefully with suitable solvents and never use water.

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