

FLORPRIME 110 EM

2 component, epoxy mortar, solvent free.

SYSTEM BUILD UP



Primer : Florprime 110 Epoxy mortar

Substrate : Concrete, cementitious crete, magnesite creed, other moisture sensitive substrate.

FEATURES

- **High strength** – up to 65 MPa compressive strength.
- **Excellent adhesion** – concrete and most coating or topping systems.
- **Good chemical resistant** – resist diluted acids & alkalis, aliphatic solvents, and most cleaning agents.
- **Abrasion/Impact resistant** – hard wearing and durable
- **Solvent free** – nonflammable, low odour, does not taint food.

APPLICATION AREAS

- **Florprime 110** is a solvent free, two components epoxy which can be used as primer and as epoxy mortar by adding Flortech QS 20 sand.
- It can be used in food & beverage, dairy production, abattoirs, warehouse/distribution centres, assembly plants and factories.

PHYSICAL PROPERTIES

Product type	3 component, solvent free epoxy mortar	
Color, mixed (A+B)	Transparent	
Solid contents, mixed (A+B)	99 %	
Density, mixed (A+B)	1.10 g/cm ³ @ 25 °C	
Viscosity, mixed (A+B)	600 – 1100 cps @ 25 °C	

PERFORMANCE DATA

Adhesive strength	> 1.5 N/mm ²	DIN ISO 4624
Compressive strength	65 MPa	DIN EN 196

PACKAGING

Components	Part A	Part B	QS Sand
Epoxy Mortar : 67.5 kg	5 kg	2.5 kg	60
Epoxy Mortar : 270 kg	20 kg	10 kg	240 kg

APPLICATION GUIDE

Mixing ratio (by weight)	Part A 2	: Part B 1	QS Sand 20 24
Working time	Approximately 25 – 30 minutes @ 25 °C		
Application temperature	10 – 30 min °C (min 3 °C above dew point)		
Material consumption	As epoxy mortar	: 2.2 kg/m ²	
Following coating	Withing 24 hours @ 25 °C		
Curing time	@ 25 °C		
	Foot traffic	After 18 – 24 hours	
	Heavy traffic	After 3 days	
	Chemical	After 7 days	

SUBSTRATE REQUIREMENT & PREPARATION

- Concrete substrate must be clean, free of laitance and contaminants and have tensile strength of 1.5 N/mm² minimum.
- Use a blow torch to dry wet areas. To achieve the ideal mechanical interlock, prepare the substrate by either captive shot blasting or diamond grinding to enhance the appropriate surface profile.
- Eliminate surface laitance, contaminants, coatings, curing compounds, and any weak or loose materials.

APPLICATION METHOD : AS EPOXY MORTAR

- Prior to starting the application, ensure that the material temperature aligns with on-site conditions. The relative humidity should not exceed 85%.
- Pour the contents of component B (Hardener) into component A (Resin). Use a suitable mixer at a speed of 500 rpm to prevent excessive air from being introduced into the mixture. Mix for a duration of 2 minutes.
- Component C is premixed dry in a forced action pan mixer. Add the mixed binder (as prepared above) to Component C and mix for at least 3 minutes.
- Apply the mortar to the primed surface using a screed box, pin rake, or hand trowel and finish by hand or with a power trowel machine to achieve uniform finishes.

OVERCOATING

- Overcoating is not necessary within the first 24 hours after mortar application. If more than 24 hours have passed, the mortar surface should be carefully ground before overcoating.

STORAGE & SHELF LIFE

Shelf Life	12 months in closed original container.
Storage	Dry, well-ventilated space and avoid direct sunlight @ 10 – 30 °C.

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