Pumaprime SF

Low viscosity epoxy primer

Resin Development

Description

Pumaprime SF is a two-component epoxy primer with good penetrating properties for use on concrete and polymer modified cementitious screeds. **Pumaprime SF** is designed to improve the adhesion of floor toppings to the substrate.

Features & Benefits

- Low viscosity - penetrates the substrate
- Seals concrete pores - reduces the potential for out gassing and pin holing in resin floor finishes
- Improves the adhesion of toppings to the substrate
- Easy to mix and apply

Suitable Substrates

Thoroughly prepared concrete, polymer modified sand and cement screeds, steel, brickwork, block work and timber.

Typical Properties, 28 days at 20 ºC

Adhesion to concrete (BS EN 1504-2) (concrete failure)	> 1.5 MPa

The typical physical properties given above are derived from testing in a controlled laboratory environment. Results derived from testing field-applied samples may vary dependent upon site conditions.

Cure Schedule at 20 ºC

Working life of full packs *	25 minutes

* Usable working life of material following mixing and immediate spreading as per the application instructions.

Finished floor * Over coating time	15 - 36 hours

* The above cure times are approximate and given as a guide only. These times can vary due to prevailing site conditions. At lower temperatures curing times will be extended. If the over coating interval of 36 hours is extended, the first coat should be abraded to ensure inter-coat adhesion.

Pack Size

5 kg, 10 kg and 25 kg units

Coverage*

Coverage varies widely due to the porosity and profile of different substrates. As a guide:

Rough porous concrete:	Test area recommended
Average finish:	200 - 250 g/m²

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

Application Conditions

Resin products should not be mixed and laid outside of the range 10 °C to 25 °C. Localised heating or cooling equipment may be required outside this range to achieve ideal temperature conditions. To reduce the risk of "blooming" caused by condensation, the climate above the uncured floor should be maintained at least 3 °C above the dew point until subsequent toppings are applied.

Surface Preparation

The concrete substrate must be at least 28 days old, sound with a minimum compressive strength of 25 N/mm^2 and a minimum pull off strength of 1.5 N/mm^2. The substrate must be clean, dry with a moisture content less than 5% (75% RH) and free of all contaminants such as dirt, oil, grease, coatings and surface treatments, etc. The substrate should be free from rising damp and ground water pressure and contain a functional damp proof membrane. Inadequate preparation will lead to loss of adhesion and failure. Grinding, vacuum-contained shot-blasting or planing is recommended depending on the final finish to be applied. Percussive scabbling or acid etching is not recommended. Refer to the **Resdev Guide to Surface Preparation** for further information.

Oil and Grease

For large areas of contamination, use hot compressed air treatment. Small, isolated contamination should be removed using an appropriate degreaser, rinsed thoroughly and allowed to completely dry. A coat of **Pumaprime OT** should then be applied (see separate datasheet).

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Application Instructions
Add the hardener component to the resin component and mix using a low speed electric mixer (200 - 500 rpm) fitted with a mixing paddle designed to minimize air entrainment for 1 - 2 minutes until homogeneous. Care should be taken to ensure that any material adhering to the sides and bottom of the mixing vessel is thoroughly mixed in otherwise uncured patches may result.

Once mixed the primer should be applied immediately in a thin continuous film Work the primer into the surface using a stiff brush or roller avoiding pooling. On porous surfaces **Pumaprime SF** will be absorbed very quickly leaving dry patches. A second coat should be applied to these dry areas to ensure good adhesion and reduce the possibility of air release from the substrate causing bubbles or pin holing in the final topping.

Health and Safety
Refer to product Safety Data Sheet before use.

EU Directive 2004/42/EC
Complies with category j type SB (< 550 g/l VOC content).

Storage
Materials should be kept dry and stored in a weatherproof building maintained at 15 °C to 20 °C on pallets and away from walls. Consignments should be used in order of batch number. Protect from frost.

Shelf Life *
12 months if stored in accordance with the above recommendations.

Limitations
Do not proceed with application if atmospheric relative humidity is, or is anticipated to be >85% or if the surface temperature is <3 ºC above the dew point. Application should not commence when the substrate temperature or the ambient temperature is, or is anticipated to be <10ºC during the application or within the curing period.

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CE	13	DOP RV0018
EN 13813 SR-B2,0 Synthetic resin screed material for use internally in buildings not subject to reaction to fire regulations		

Reaction to fire	NPD	Impact resistance	NPD
Release of corrosive substances	SR	Sound insulation	NPD
Water permeability	NPD	Sound absorption	NPD
Wear resistance	NPD	Thermal resistance	NPD
Bond strength	B2,0	Chemical resistance	NPD

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