

POLYSCREED PU PRIMER FS

Fast Set Polyurethane Concrete Primer

Polyscreed PU Primer FS is a three component, quick setting polyurethane resin primer designed for use with the Polyscreed PU range of products.

The applied product forms a watertight moisture barrier and in doing so reduces the chance of pin or blow hole formation in subsequent polyurethane systems. When applied to a correctly prepared substrate, the bond strengths are in excess of the concrete cohesive strength and thus forms an excellent bonding surface.

UNIQUE PRODUCT BENEFITS

- Excellent adhesion to concrete and masonry.
- Absorbs residual moisture in substrates.
- Permanent moisture barrier.
- Quick and easy application.
- High chemical resistance.
- High impact resistance.
- HACCP compliant - Ideal for food processing areas.

APPLICATIONS:

- Chemical processing plants
- Wet or dry processing areas
- Breweries
- Food processing plants
- Packaging areas
- HACCP environments
- Engineering and fabrication workshops
- Laboratories

TECHNICAL DETAILS

Compressive Strength	> 55 MPa	BS6319
Tensile Strength	> 6.5 MPa	
Flexural Strength	> 40 MPa	
Concrete Adhesion	> 1.5 MPa (Concrete failure)	ASTM D7234
Impact Resistance	1 kg > 1.8 m 2 kg > 1.5 m	ISO6272 -1:2011
Hardness	80	Shore D
Slip Resistance	Dry > 70 Wet > 25	TRRL Pendulum Slip Test
Water Uptake (Permeability)	Nil	Karsten Test
Chemical Resistance	Refer to chemical chart	
Colour	Grey	
Over Coat Min. @ 25°C	4 hrs	
Over Coat Max. @ 25°C	48 hrs	
Kit Yield	7.8 L	
Coverage @ 0.5 mm	15.6 m ²	
Coverage @ 1 mm	7.8 m ²	

PACKAGING

Part 1	2.45 kg (Resin)
Part 2	2.5 kg (Hardener)
Part 3	7.75 kg (Aggregate)
Total Kit	12.7 kg

**Leading manufactures of specialist epoxy and polyurethane flooring systems,
specialised construction and corrosion protection products.**

Distribution facilities nationwide

Western Cape
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SUBSTRATE REQUIREMENTS

Concrete substrates must have a minimum compressive strength of 20 to 25 MPa, a minimum tensile pull-off strength of 1.5 MPa and be free of oil, fat, grease, dust, and loose friable materials. There must be no moisture vapour rising from the concrete and moisture content must be less than 5%.

Note: Any filling of blowholes / voids and surface levelling of substrate can be achieved using appropriate products within Technical Finishes Construction Range (please speak to one of our technical sales representatives).

PREPARATION

Remove all previous coatings, unbonded concrete and laitance mechanically through diamond grinding, abrasive blasting or scarifying to obtain a sound and porous surface (sandpaper texture). Sweep dust and loose debris followed by vacuuming, to obtain a dry and dust-free surface. It is standard practice to ensure grooves 5 mm by 5 mm, run parallel to and 150 mm from all walls, plinths, finished edges, expansion joints, columns.

INSTALLATION

Ensure application conditions of 10 to 25°C and at a maximum of 75% Relative Humidity. Ensure adequate lighting to achieve an even and level spread. Installation should not be attempted unless application team is fully trained.

Mixing

Open the aggregate bag (Part 3) before the mixing starts to ensure no time is wasted between mixes / kits.

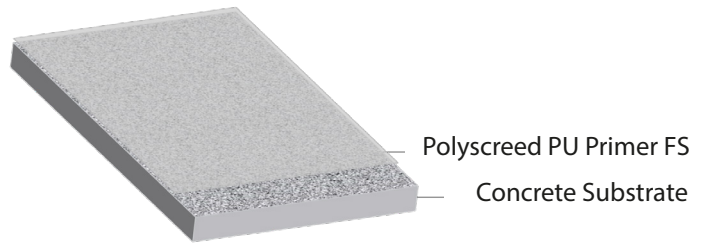
Shake Part 1 vigorously prior to opening.

Mix Part 1 and Part 2 mechanically with a mortar mixer in a bucket.

Add the aggregate slowly while mixing. After the last of the aggregate has been added, mix until uniformly wetted out with no lumps for no longer than 2 minutes.

Placing

Pour out the mixed product onto the demarcated area and trowel into place in a scraper coat fashion. On very porous



surfaces, apply further primer coat after 2.5 hours until surface is completely wetted out. Trowel out as a scraper coat, leaving just enough to provide a wet look and visible seal. Allow to cure for 4 hours before applying any topping product systems.

Difficult substrates

Weak and dusting substrates generally consume 30% more primer than usual. Re-priming is necessary when the first coat of primer penetrates leaving a patchy appearance. Re-priming may be done immediately (< 30 min.) into wet primer to save time and no longer than 48 hours later. Should the floor surface be excessively wet or show substantial divots, use Solidkote MB as the primer as this mix assists furthermore with moisture tolerance and floor surface levelling.

Coving and Walls

Broadcast silica sand into the wet primer for assistance with bonding on vertical applications.

STORAGE

Store the kit in a cool, dry place out of direct sunlight and where there is no exposure to damp and humidity.

MAINTENANCE

Polyscreed PU Primer FS is to be covered with a polyurethane system topping. Protect the primed floor surface from all forms of traffic until screeding over is done. Contaminated surfaces would need to be prepared and primed again.

ANTIMICROBIAL RESISTANCE

An important advantage of the Polyscreed range is its silver ion technology which inhibits the growth of bacteria and fungi ensuring a more hygienic surface.

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HEALTH AND SAFETY

Please read Safety Data Sheet and specific health and safety data for this product provided in compliance with the requirements of OHS Act No.85 of 1993. The finished system is not hazardous to health or the environment.

WARRANTY

Technical Finishes products are manufactured under high quality standards and are warranted against defective materials and are sold subject to standard Terms and Conditions of Sale, copies of which can be obtained upon request. Technical Finishes deals with approved applicators and carry a back to back warranty with these clients. Technical Finishes cannot be held responsible for the workmanship in surface preparation and application of our products, it is understood that the approved contractor will guarantee such workmanship and application. It is vital that the application is done in accordance to our specification

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