PSP™
Polymer-modified Slurry Primer

AFZIR
Advanced Solutions
Strengthening Company

PRODUCT DESCRIPTION

PSP™ is a one component polymer modified cementitious slurry primer specifically formulated to provide exceptional bond between all types of concrete and steel surfaces. PSP™ Polymer-modified Slurry Primer not only reinstates a high pH environment, it also contains active corrosion inhibiting additives for the protection of reinforcement steel. Furthermore PSP™ can be used as an adhesive bonding slurry for subsequent repair mortars. When mixed with water, it forms a slurry that can be applied by brush to the clean exposed reinforcement, or directly on the dampened, prepared concrete substrate when used as a bonding coat.

PRODUCT FEATURES

- Provides an exceptional bond between bedding concretes and all types of paving elements.
- Steel priming in concrete repair systems.
- Contains active corrosion inhibitors – to further protect the steel.
- Can be used on vertical and overhead applications
- Fast curing - to save time and money
- Long life primer.

PRODUCT USES

- In critical environments when extra protection is specified.
- As a primer for steel substrates prior to suitable top coating.
- When concrete is contaminated with chlorides
- For application in town center pedestrian schemes, pathways and carriageways.

HOW TO USE
SURFACE PREPARATION

At the time of application of PSP™, remove all traces of corrosion, debris and ponded water from the supporting structure. Surfaces should be cleaned by brushing or washing with water to remove dust, loose material, packaging and/or production aids prior to the application of PSP™ Polymer-modified Slurry Primer. Surface should be clean from all residual that reduces the substrate's adhesion such as oil, grease and rust.

MIXING:

Place 0.22 to 0.26 litres of clean water per kg of powder in a suitable container. Mix for 3 to 5 minutes with a paddle mounted on a slow-speed drill, or by hand to create smooth lump-free slurry. The primer should be used on the supporting layer/road-base immediately prior to the application of the laying course.

APPLICATION:

Apply the mixed material using a soft paint brush in one layer with approximately 1mm thick to the full circumference of the prepared reinforcement. After hardening of first layer, apply a second coat with 1mm thick. It is important that this second layer has sufficiently hardened before the repair mortar is applied.

Polymer-modified Slurry Primer - PSP™

TECHNICAL DATA	
Layer thickness	2mm in layers
Density	Approx. 1.8 g/cm3
Working time	Approx. 60 minutes
Temperature for application (support and material)	+5 to +35°C
Bond (Adhesion) Strength	2.20N/mm² after 28 days
Mixing water	Approx. 0.22 – 0.26 l/kg
Pull out strength of coated rebar	≥ 80% Comparison vs uncoated

HANDLING

Approved personal protection equipment should be worn at all times. Particle mask is recommended for possible airborne particles. Gloves are recommended when handling mortar to avoid skin irritation. Safety glasses are recommended to prevent eye irritation. Wear chemical resistant clothing/gloves/goggles. Ventilate area. In absence of adequate ventilation, use properly fitted respirator.

STORAGE

Store in dry, shaded conditions away from sources of heat and ignition. Recommendation temperature is 25°c.

FIRST AID

In case of skin contact, wash thoroughly with soap and water. For eye contact, flush immediately with plenty of water; contact physician immediately. For respiratory problems, remove to fresh air. Wash clothing before reuse.

DISCLAIMER OF LIABILITY

AFZIR, LLC warrants its products to be free from manufacturing defects. Buyer determines suitability of product for use and assumes all risks. Buyer's sole remedy shall be limited to replacement of product. Any claim for breach of this warranty must be brought within six months of the date of purchase.

AFZIR shall not be liable for any consequential or special damages of any kind, resulting from any claim or breach of warranty, breach of contract, negligence or any legal theory.

The Buyer, by accepting the products described herein, agrees to be responsible for thoroughly testing any application to determine its suitability before committing to production.

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