

SINGLE COMPONENT POLYURATHANE WATERPROOFING COATING

Description

AQUAPROOF PU S1 is a single-component, liquid applied, elastomeric polyurethane coating for waterproofing of concrete surfaces. AQUAPROOF PU S1 provides excellent resistance to moisture, water, and salts penetration into concrete and masonry surfaces.

Uses

AQUAPROOF PU S1 is formulated for application as an exclusive concealed waterproofing system. It is used for waterproofing of kitchen, toilet, balconies, terraces, planter boxes, reinforced concrete roof, external tanking of basements, swimming pool, retaining walls, sub-grade floors and wall slabs.

Advantages

- Easy and ready application from containers with brush, rollers or spray.
- Seamless, Self-Leveling and Roller applicable.
- Flexible and withstand Structural movement and Crack-bridging up to 2 mm.
- Chemical resistant and does not allow bacterial growth.
- Non-toxic formulation
- Dust free and resistant to general chemicals.
- High Solid content greater than 80%.
- Quick Drying 2-3 hours at 25-30°C.

Coverage

1.5 Kg per m² for 1mm thickness in case of smooth surface.

Technical Data

Product Composition	Pure Polyurethane
Colour	Light Grey
Density	Approx 1.45gm/cc
Non volatile Content (ASTM D 2369)	> 80%
Tensile Strength (ASTM D 638)	> 2.0 N/mm ²
Elongation at break (ASTM D 638)	> 650%
Tear Strength (ASTM D 624)	> 10 N/mm ²
Adhesion to Concrete	> 1.2 N/mm ²
Hardness (Shore A) (ASTM D 2240)	50
Touch dry (@ 25°C, 65% R.H)	Approx 3 hours
Full Curing Time	7 days
Service Temperature	-40°C to +100°C

Application Instruction

Surface Preparation:

Concrete

Concrete should be subjected to curing for 28 days. The moisture content of the surface should be below 4.0%. The concrete surface over which the coating is to be applied should be structurally sound, clean, dry, free from loose particles, oil, laitance and other containments. PU SEAL sealant to be used to fill in joints or cracks and form fillet to internal corners or penetrations.

Priming:

Over the prepared Concrete surface, one coat of AQUAPROOF PU PRIMER S or AQUAPROOF PU PRIMER W to be applied to make the surface smooth and also to achieve perfect bonding of the coating with the surface.

Packaging

AQUAPROOF PU S1 is available in 25 Kg. Metal Bucket.

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Application:

We recommend application of 2 coats of AQUAPROOF PU S1 to be done using a roller and rubber squeegee.

This first coat must be allowed to dry completely before application of the second coat. To protect the membrane from getting damaged, screed concrete, polystyrene boards or roofing felts is recommended. If it is to be applied to exposed surface us AQUAPROOF PU S1 as a top coat to make it UV Resistant.

Storage & Shelf life

Shelf life is 12 months, store in unopened containers in clear, dry conditions at 4 to 27°C. During storage, an easily removed skin of AQUAPROOF PU S1 may form, which does not affect the performance of the product. For specific storage advices please consult FCSC Technical Services Department.

Safety Precautions

AQUAPROOF PU S1 is non-toxic but ingestion is to be avoided. Any splashes to the skin must be washed with water. If contact with eyes occurs, wash well immediately with water and seek medical advice.

Disclaimer

Whilst any information contained herein is true, accurate and represents our best knowledge and experience, no warranty is given or implied with any recommendations made by us, our representatives or distributors, as the conditions of use and the competence of any labour involved in the application are beyond our control.

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AQUAPROOF PU S1

TECHNICAL DATA SHEET

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