



Lease Life
to Man-Made
Structures

SUPERSHIELD

WAPPRIME

Water-based Polyurethane Primer for Waterproofing



PRODUCT DESCRIPTION

SUPERSHIELD WAPPRIME is a one-component, water-based primer that is transparent, semi-rigid, and deep-penetrating, specifically designed for waterproofing and floor coating applications. It excels in creating strong adhesion between substrates and subsequent coatings while also serving effectively as a sealer coat. Formulated with **SUPERSHIELD WAPELASTIC TECHNOLOGY**, SUPERSHIELD WAPPRIME uses 100% aliphatic polyurethane dispersion to provide exceptional sheen, UV resistance, and durability. This advanced technology ensures that long-chain polyurethane macromolecules are stably dispersed in water, blending the durability of polyurethane with the ease of application of a water-based coating. The result is a low-VOC, eco-friendly primer that adheres to the highest performance standards and emphasizes environmental safety.

RECOMMENDED USES

- Transparent waterproofing for balconies and terraces
- Used as a top coat over the waterproofing membranes subjected to pedestrian traffic
- Transparent waterproofing for ceramic, glass, and natural stones
- Hygiene coating over existing walls
- Used as a top coat for bridges, flyovers, tunnels, and rail roads to enhance durability
- Laminate coating of concrete, steel, and wood

FEATURES AND BENEFITS

- Easy application (roller or airless spray)
- Water-based and VOC-compliant
- Quick drying
- Deep penetrating
- Excellent anchoring to absorbent surfaces
- It is heat and frost-resistant.
- It seals the substrate and prevents dust formation.
- It has low and high temperature stability.



TECHNICAL DATA

General Characteristics

PROPERTY	VALUE
Color and Appearance	Transparent Liquid
Service Temperature	-30°C to + 80°C
VOC Content	<100g/l (Low VOC Content)

Performance Characteristics

TEST NAME	TEST METHOD	PERFORMANCE
Water Permeability	EN 1062-6	> SD 50m
Permeability to water vapour	EN ISO 7783-1,2	Class I SD< 5m
Capillary Absorption and Permeability to water	EN 1062-3	W < 0.1
Strength of Adhesion to indirect traction	EN 1542	≥ 0.8 N/mm ²
Thermogravimetry	EN ISO 11358	+5% of reference with respect to loss of mass @ 600°C
Infrared spectrum	EN 1767	Position and relative intensities of the main absorption band matches with reference



APPLICATION GUIDELINES

Surface Preparation

Careful surface preparation is essential for optimum finish and durability. The surface needs to be clean, dry, and sound, free of any contamination that may harmfully affect the adhesion of the membrane. The maximum moisture content should not exceed 6%. Substrate compressive strength should be at least 15 MPa, and cohesive bond strength should be at least 1.5 MPa. New concrete structures need to dry for at least 28 days. Old, loose coatings, dirt, fats, oils, organic substances, and dust need to be removed by a grinding machine. Possible surface irregularities need to be smoothed. Any loose surface pieces and grinding dust need to be thoroughly removed.

Consumption

0.2 kg/m² applied in one or two layers. This coverage is based on application by roller onto a smooth surface in optimum conditions. Factors like surface porosity, temperature, and application method can alter consumption.

Application

For best results, the temperature during application and curing should be between 5°C and 35°C. Low temperatures retard curing, while high temperatures speed up curing. High humidity may affect the final finish. Apply SUPERSHIELD WAPPRIME by roller or brush until the surface is covered. You can use airless spray, allowing a considerable saving in manpower. After 3–4 hours, while the primer is still a bit tacky, apply the subsequent coating.

Recommendation: If the surface is very brittle, like lightweight concrete or porous cement screed, apply two layers of SUPERSHIELD WAPPRIME.

HEALTH AND SAFETY

SUPERSHIELD WAPPRIME contains chemicals that may cause skin irritation. For personal precaution, protective gloves and goggles are recommended to be worn during the handling of this product. If the product gets in contact with the eyes, flush immediately with clean water and seek medical assistance if symptoms persist.

STORAGE

SUPERSHIELD WAPPRIME should be stored in dry and cool rooms in their original, unopened containers for up to 18 months. Protect the material against frost and direct sunlight. Storage temperature: 5°C–30°C.

PACKAGING

20 kg pails.

WARRANTY

Supershield warrants that its products will be free from material defects and will comply with the specifications provided in their respective technical data sheets. If any product is proven to be defective, Supershield's liability will be limited to the replacement of the product. Supershield will not be liable for any incidental or consequential damages. No other warranties, express or implied, shall apply, including warranties of merchantability or fitness for a particular purpose. It is the user's responsibility to determine the suitability of the product for their intended use and to assume all risks and liabilities associated with its application. Supershield reserves the right to alter the properties of its products without prior notice.