



SUPERSHIELD WAPPRIME **WATERBASED POLYURETHANE PRIMER** **BASED ON SUPERSHIELD WAP TECHNOLOGY™**

- Simple application (roller or airless spray).
- Water Based and LOW VOC
- Quick drying
- Deep penetrating
- Excellent anchoring to absorbent surfaces.
- Heat and frost resistant
- Seals the substrate and Stops the creation of dust.
- Low and high temperature stability

PRODUCT DESCRIPTION

The SUPERSHIELD WAPPRIME is a water-based, transparent, semi-rigid, deep penetrating, one component, polyurethane primer used as a primer for the waterproofing and Floor coating applications for the most demanding applications along with the WAP range of products.

Supershield WAPPRIME is based on innovative WAP (Waterbase Aliphatic Polyurethane) Elastic technology that is developed based on the 100% aliphatic polyurethane dispersion with excellent bonding and U.V resistance. When the SUPERSHIELD WAPPRIME is applied, it forms an Excellent bonding between the substrates and the subsequent coating, it also acts a sealer coat.

SUPERSHIELD WAP ELASTIC TECHNOLOGY

The WAP ELASTIC TECHNOLOGY from Supershield enables, long chain polyurethane macromolecules to be incorporated in a water medium, forming stable dispersion. SUPERSHIELD WAP ELASTIC TECHNOLOGY combines the high performance of the polyurethane dispersion with the application ease of an one-component water based coatings, in an ecological, low VOC, environmental friendly product.

RECOMMENDED FOR

- Concrete
- Mortar
- Plaster
- Wood,
- Steel
- Bitumen etc.



TECHNICAL DATA

Product Code	SWE101
Colour and Appearance	Transparent Liquid
Density	1.04 Kg/litre
VOC Content	< 75 gm/Ltr ²
Composition	Polyurethane pre-polymer dispersion.
Adhesion to concrete	ASTM D 903 >1,5 N/mm ²
Hardness (SHORE A Scale)	ASTM D 2240 >80
Service Temperature	Inhouse lab 30°C to +90°C
Water Vapor Permeability	ISO 9932:91 >15 gr/m ² /day
Tack free time	Conditions: 20°C, 50% RH 90 min
Overcoating time	Conditions: 20°C, 50% RH 3-4 hours
Final Curing time	Conditions: 20°C, 50% RH 10 days

Performance characteristics for CE certification according to EN 1504-2:2004, 2+

TEST TYPE	STANDARD	PERFORMANCE
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 1767	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 @ 6000c
Infrared spectrum	EN 1767	Position & relative intensities of main absorption band matches with reference

The information contained herein is based on our long-term experience and the best of our knowledge. We can, however, make no guarantee since for a successful outcome, all circumstances in an individual case must be taken into consideration. Indications of quantities required are only averages which in certain cases might be greater.



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, which may harmfully affect the adhesion of the membrane. Maximum moisture content should not exceed 6%. Substrate compressive strength should be at least 15 MPa, cohesive bond strength at least 1.5MPa. 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.

PRIMING

For best results, the temperature during application and cure should be between 5oC and 30oC. Low temperatures retard cure, while high temperature speed up curing. High humidity may affect the final finish.

Apply the SUPERSHIELD WAPPRIME by roller or brush, until the surface is covered. You can use airless spray allowing a considerable saving of manpower.

After 3-4 hours and 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 the SUPERSHIELD WAPPRIME .

HEALTH AND SAFETY

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

STORAGE

Supershield WAPPRIME pails should be stored in dry and cool rooms for up to 18 months. Protect the material against frost and direct sunlight. Storage temperature: 5^oC -30^oC. Products should remain in their original, unopened containers.

PACKAGING

25 Kg Pails.