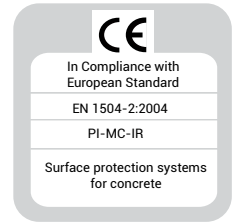




ECO-FRIENDLY LIQUID APPLIED WATERPROOFING & COOL ROOF MEMBRANE BASED ON SUPERSHIELD WAP-ELASTIC TECHNOLOGY

- One component water based, VOC complaint
- Excellent weather, UV light, and water resistance
- Forms fully bonded seamless membrane without joints
- Excellent adhesion to most building materials
- Flexible coating accommodates substrate movements and bridges cracks
- Water vapor permeable
- Can take light foot traffic
- High solar reflectance

**WAP elastic**

PRODUCT DESCRIPTION

Supershield ROOFON is a cold applied, one component waterborne liquid applied waterproofing and protective membrane that easily forms a resilient barrier over roofs, walls and concrete infrastructures. Supershield ROOFON waterproofs the substrate, protects it from weather and atmospheric degradation and also acts as a cool roof coating owing to its reflective properties. ROOFON will remain elastic and will bridge and seal hairline cracks. Supershield ROOFON is based on our innovative WAP (Water-based Aliphatic Polyurethane) - ELASTIC TECHNOLOGY that is developed based on the 100% aliphatic polyurethane dispersion with excellent U.V resistance and does not require any top coat for U.V protection.

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 polyurethane dispersion with the application ease of one component water based coatings, in an ecological, low VOC, environment friendly product.

RECOMMENDED FOR

- Architectural and protective coatings for bridges, flyovers, tunnels and other infrastructures
- Exposed roof waterproofing solutions in both new construction and refurbishment projects
- Exposed roofs with many details and complex geometry when accessibility is limited
- Cost efficient life cycle extension of failing exposed roofs
- Reflective coatings to enhance energy efficiency by reducing cooling cost
- Side walls
- Slope roofs
- Parapet walls
- Protection of polyurethane foam insulation

Substrates: Cementitious, brick, stone, metal and existing bituminous membranes



TECHNICAL DATA

Product Code	SWE102
Colour and Appearance	White Liquid
Density	1.25 - 1.3 Kg/litre
VOC Content	< 75 gm/Ltr ²
Service Temperature	-40°C to +80°C
Solid Content	ASTM 2369 : 70.04
Elongation @ break	ASTM D412 : > 600%
Tensile Strength	ASTM D412 : > 11 N/mm ²
Solar Reflectance	ASTM E 903-96 : 91%

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 @ 600°C
Infrared spectrum	EN 1767	Position and relative intensities of the 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 substrate to be applied with Supershield ROOFON 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 8%. The substrate's compressive strength should be at least 25 Mpa, cohesive bond strength at least 1.5MPa. New concrete structures need to dry for at least 28 days. Old, loose coatings, dirt, oils, organic substances and dust need to be removed by appropriate methods. Possible surface irregularities need to be smoothed. Any loose surface pieces and grinding dust need to be thoroughly removed.

Repairs to the substrate, filling of joints, honeycombs/ voids and surface leveling must be carried out using the appropriate Supershield products. Contact Supershield for further information.

CONSUMPTION

1– 1.5 kg/m² applied in two or three 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 prime absorbent and brittle surfaces like concrete, cement screed, mortar, plaster, wood prime with Supershield ROOFON diluted with 10 to 20% clean water primer. For very brittle surfaces and/or demanding applications prime with SUPERSHIELD WAPPRIME and allow the primer coat to cure according to its technical specification.

APPLICATION

Stir well before using. Pour Supershield ROOFON onto the prepared / primed surface and lay it out by

roller or brush, until all surface is covered. You can also use airless spray allowing a considerable saving of manpower. After 6 to 24 hours apply another layer of the Supershield ROOFON. For demanding applications and better waterproofing results apply a third layer of ROOFON. Reinforce always with Supershield Refab at problem areas, like wall floor connections, chimneys, pipes, waterspouts, etc. In order to do that, apply on the still wet ROOFON a correct cut piece of Supershield Refab, press it to soak, and saturate again with enough ROOFON. For detailed application instructions with the Supershield Refab, contact Supershield. Do not apply the Supershield ROOFON over 0.5 mm thickness (dry film) per layer.

CURING

The ROOFON coating should be air cured for minimum of 4 to 6 days and protected from water/rain for a minimum of 18 hours.

LIMITATIONS

- Do not apply the ROOFON in negative (deg C) temperatures or when rain or frost is imminent in the next 48 hours. For best results, the temperature during application and curing should be between 5 °C and 35°C. Low temperatures retard curing while high temperature speed up curing. High humidity may affect the final finish. Do not apply ROOFON on substrates that have rising moisture. Always apply during falling ambient and substrate temperature. If applied during rising temperatures pin holing may occur from rising and expanding air
- ROOFON is slippery when wet. In order to avoid slipperiness during wet days, sprinkle suitable aggregates onto the still wet coating to create an anti slip surface
- Ensure that each coat of ROOFON is totally dry and the surface is without pin holes before



APPLICATION GUIDELINES

applying further coats

- Ensure that the applied ROOFON has sufficient curing time before any such inclement weather is expected
- Do not allow temporary ponding or moisture (dew, condensation etc) to remain between coats on any horizontal surfaces or until the final coating has totally cured. Brush or mop surface water away during this time
- It is recommended to carry out adhesion and compatibility tests with the primer prior to application of following coats
- ROOFON should not be applied on roofs subject to long-term ponding water especially with subsequent periods of frost. In cold climatic zones for roofing structures with a pitch of less than 3% appropriate drainage measures must have to be considered
- ROOFON should not be subject to permanent water immersion
- Whilst ROOFON is resistant to most commonly encountered atmospheric pollutants, proprietary cleaning solutions and environmental spoilage, the suitability of the product for use in applications with increased chemical resistance requirements should first be established in consultation with Supershield.

HEALTH AND SAFETY

Supershield ROOFON 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 ROOFON 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°C-30°C. Products should remain in their original, unopened containers.

PACKAGING

20 Kg Pails.