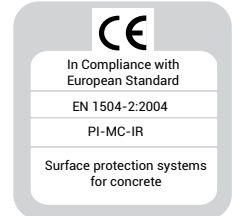




TRANSPARENT ABRASION AND WEAR RESISTANT PROTECTIVE COATINGS BASED ON WAP-ELASTIC TECHNOLOGY™

- Forms seamless transparent waterproofing membrane
- Resistant to abrasion and wear conditions yet flexible
- One component water based, VOC compliant
- High sheen with excellent weather, U.V. Light and water resistance
- Water vapour permeable
- Excellent resistance to carbonation and chemicals
- Low and high temperature stability and accommodate movements



PRODUCT DESCRIPTION

SUPERSHIELD CLEARON is a one component waterborne liquid applied, transparent, abrasion and wear resistant protective coating used in wide range of applications such as,

- waterproofing tiled substrates without removing them,
- as a top coat for protection over protective membranes in buildings and infrastructures subjected to wear and weathering conditions,
- hygiene coatings in food and pharmaceutical industries and
- as a laminate coating to protect and beautify concrete, wood and steel.

SUPERSHIELD CLEARON is available in both glossy and matt finishes.

SUPERSHIELD CLEARON is based on innovative WAP (Water-based Aliphatic Polyurethane)- ELASTIC technology that is developed based on the 100% aliphatic polyurethane dispersion which is transparent, hard-elastic and U.V resistant. When SUPERSHIELD CLEARON is applied, it forms a seamless, protective coating that protects efficiently on a long-term basis.

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, environment friendly product.

RECOMMENDED FOR

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



TECHNICAL DATA

Product Code	SWE104A / SWE104B
Colour and Appearance	Transparent Liquid
Density	1.04 Kg/litre
VOC Content	< 75 gm/Ltr ²
Service Temperature	-40°C to +90°C
Elongation at Break	DIN EN ISO 527 150%
Tensile Strength	DIN EN ISO 527 13 N/mm ²
Abrasion Resistance (Taber Abraser)	ASTM D 4060 0.10 gms / 1000 cycles
Hardness (Shore D Scale)	ASTM D 2240 (15") >30
Light Pedestrian Traffic Time	Conditions: 20°C, 50% RH 24 hours
Final Curing time	Conditions: 20°C, 50% RH 7 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 @ 600°C
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 5%. New concrete structures need to dry for at least 28 days. Old coatings, dirt, fats, oils, organic substances and dust need to be removed. Possible surface irregularities need to be smoothed.

CONSUMPTION

- Application as a Top Coat - 0.2- 0.4 kg/m² in two or three layers.
- Application over Tiles - 0.5 - 0.6 kg/m² in two or three layers.
- Application as a Binder Resin for Sand Carpet Coating - 0.8 - 1.2 kg/m² 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.

APPLICATION AS A TOP COAT / APPLICATION ABOVE TILES

Pour Supershield CLEARON coating onto the surface and lay it out by roller, brush or by suitable teeth trowel, until all surface is covered. After 12 hours - but not later than 18 hours –apply a second layer of CLEARON coating, by using roller or brush. For better waterproofing and wear resistance results, apply a third layer of CLEARON coating.

FINISHING

If a satin matt surface is desired, apply one layer of the Supershield CLEARON MATT.

LIMITATIONS

- Surfaces with trapped moisture (e.g. trapped

moisture under balconies tiles) must be left to dry completely (max. 5% moisture), before the application of the Supershield CLEARON coating.

- Do not apply the Supershield CLEARON on surfaces treated in the past with active silane, siloxane, silicon or other water- repellents, because of expected poor adhesion. We recommend an adhesion test, if circumstances and surface history are not clear. On marble and granite please perform an adhesion test, to ensure that adhesion is proper.
- Do not apply Supershield CLEARON over 1mm thickness (dry film) per layer. For best results, the temperature during application and cure should be between 5°C and 35°C. Low temperatures retard cure while high temperature speed up curing. High humidity may affect the final finish.
- Supershield CLEARON coating 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. Please contact Supershield for more information.

APPLICATION AS A BINDER RESIN FOR SAND CARPET COATING

PRIMING

Prime concrete surfaces with Supershield WAPPRIME and broadcast silica sand while still wet.

APPLICATION

Mix Supershield CLEARON with colored Silica Sand (cornsize 0,7- 1,2mm or 2,0-3,5mm) in a mixing ratio of 1:10 (resin: sand) by weight, with a low speed mechanical mixer, until the mixture becomes fully homogeneous. Pour the mixture onto the prepared surface and apply by flat trowel.

For best results, the temperature during application and cure should be between 5°C and 35°C. Low



APPLICATION GUIDELINES

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CURING

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

HEALTH AND SAFETY

SUPERSHIELD CLEARON 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 CLEARON 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.