



Lease Life
to Man-Made
Structures

SUPERSHIELD

CLEARON

Transparent Abrasion and Wear Resistant Protective Coatings



PRODUCT DESCRIPTION

SUPERSHIELD CLEARON is a one-component, waterborne, liquid-applied protective coating that is transparent, abrasion-resistant, and wear-resistant. It is versatile for various applications, including :

- Waterproofing tiled substrates without the need for removal
- Top coating for protective membranes on buildings and infrastructure exposed to wear and weathering
- Hygiene coatings for the food and pharmaceutical industries
- Laminate coating to protect and enhance concrete, wood, and steel surfaces

SUPERSHIELD CLEARON is available in both glossy and matte finishes. When applied, it forms a seamless, durable coating that provides effective, long-term protection. CLEARON is formulated with **SUPERSHIELD WAPELASTIC TECHNOLOGY**, which integrates long-chain polyurethane macromolecules into a water-based medium to create a stable dispersion. This advanced technology merges the high performance of polyurethane with the ease of application of a one-component, water-based coating. Upon application, SUPERSHIELD CLEARON forms a seamless, durable coating that provides efficient, long-lasting protection.

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

- Forms a seamless, transparent waterproofing coating
- 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 vapor permeable
- Excellent resistance to carbonation and chemicals
- Low and high temperature stability and accommodating movements



TECHNICAL DATA

General Characteristics		
PROPERTY	VALUE	
Color and Appearance	Transparent - Liquid	
Service Temperature	-40°C to + 90°C	
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
Elongation at Break	DIN EN ISO 527	150%
Tensile Strength	DIN EN ISO 527	13 N/mm²
Abrasion Resistance (Taber Abraser)	ASTM D 4060	0.10 gms/1000 cycles
Hardness (Shore D Scale)	ASTM D 2240	(15'') >30
Capillary Absorption and Permeability to water	EN 1062-3	W < 0.1
Strength of Adhesion to indirect traction	EN 1542	≥ 0.8 N/mm²
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 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 three layers.
- Application over tiles : 0.5–0.6 kg/m² in two or three layers.
- Application as a Binder Resin for Sand Carpet 2 : 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 Or Above Tiles

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

Finishing

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

Application as a BINDER Resin in 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 (corn size 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 with a flat trowel.

For best results, the temperature during application and cure 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.

Curing

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

LIMITATIONS

Surfaces with trapped moisture (e.g., trapped moisture under balcony 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, silicone, or other water-repellents because of the 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 1 mm of 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 curing, while high temperatures speed up curing. High humidity may affect the final finish.

- SUPERSHIELD CLEARON coating is slippery when wet. 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.

HEALTH AND SAFETY

SUPERSHIELD CLEARON 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 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.

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.