

SUFFIX MS HYDRO - LV

Single Component MS Polymer Waterproofing Membrane

ISOLATIONS

Description of Product

SUFFIX MS HYDRO - LV; It is a high-tech coating produced with MS Polymer technology, single-component, self-flowing liquid, ready-to-use, UV resistant, highly resistant to water and moisture, free of solvents and isocyanates, with high permanent elasticity, and can be applied with a roller or brush. It is an insulation material. It is used to waterproof large horizontal and vertical surfaces and to bridge hairline cracks up to 5 mm.

Areas of Use

In interior and exterior spaces, horizontal and vertical surfaces, terraces, balconies, roofs, chimney connection points, protection of polyurethane thermal insulation foam, concrete, stone, marble, ceramics, tiles, all kinds of wood, glass, metal, tiles, bricks, betopan, It is used against unpressurized water and ground moisture on almost every surface and their combinations, including mineral-based surfaces such as aerated concrete, etc., in pools and cisterns, in wet areas such as bathrooms and kitchens, and in places below the ground level such as foundations, garages and basements. It is used for waterproofing and protection in bridge and deck concretes.

Advantages

It does not contain solvents and isocyanates that are harmful to the environment and human health. It can be easily used indoors. It has a 100% elastomeric structure. Since it does not contain solvents, it does not lose volume. It does not crack, yellow or flow. It can be used easily outdoors. It adheres perfectly to damp surfaces without a primer and provides high adherence. It can be applied without primer depending on the ground structure. It is very flexible and has the ability to bridge cracks up to 5 mm and fill cracks up to 2 mm. It maintains its elasticity and adhesion properties in cracks and joints that form and grow as the building moves. It has a rollback feature. It is not harmful to human and environmental health due to its low VOC values. It is applied easily and quickly with a brush or roller. It does not create joints. It can be painted over. Since it is a single component, it can be applied easily and quickly.

Physical Properties

Quality (23°C, 50% RH)	Value	Standard & Method
Appearance	Concrete Gray	-
Viscosity	4500 ± 1000	EN ISO 2555
Density (gr/cm ³)	1,28 ± 0,05	EN ISO 2811 - 1
Solid Content (%)	> 99	EN ISO 3251

Mechanical Properties

Quality (23°C, 50% RH, 7 Days)	Value	Standard & Method
Elongation at Break (%)	> 500	EN ISO 527 ASTM D 412
Tensile Strength (N/mm ²)	> 1,5	EN ISO 527 ASTM D 412
Modulus (100%)	0,45	EN ISO 527 ASTM D 412
Adhesion Strength (N/mm ²)	> 0,8	EN 1542 ASTM D 4541
Surface Hardness (Shore A)	30	EN ISO 868 ASTM D 2240

Technical Properties After Application and Cure

Quality (23°C, 50% RH)	Value	Standard & Method
Curing	24 hours	-50% RH at 23°C
Film Formation Time	70 minutes	
Recoating Time (Hours)	8 - 24	
Full Curing (days)	7	
Application Surface Temperature	min 10°C - max 40°C	-
Application Ambient Temperature	min 10°C - max 40°C	-

Application Information - Surface Preparation

The application surface must be clean of anti-adhesion substances such as dust, oil, tar, pitch, paint, silicone, curing material, detergent and mold oils. Weak parts of the concrete should be repaired, plasters that do not adhere well should be removed, the surface should be made smooth and solid, and static cracks in the building should be repaired with Resistant Non-Shrinkage Grout Mortar. Dynamic (moving) cracks should be filled with suitable SUFFIX MS or Polyurethane mastics. The holes from which water comes must be clogged. There is no need to use primer under normal conditions. However, if the surface is dusty or extremely wet, it should be primed with SUFFIX PRIMER EP BARRIER or SUFFIX PRIMER PUR 2K. Application should be made within 6-18 hours after priming.

Application Information - Environmental Conditions

- The relative humidity of the air should be at most 80% and the application temperature (environment and surface) should be between +10°C and +40°C.
- It should not be rainy in open areas 48 hours before, during and 48 hours after application.

Application Information - Application on Surface

SUFFIX MS HYDRO - LV; single ingredient! and is a ready-to-use material. After the product is mixed thoroughly, it is poured onto the surface homogeneously. It should then be applied evenly to the surface in one or two layers using a roller or brush. SUFFIX MS HYDRO - LV is applied as the first coat with a consumption of 1.0-1.3 kg/m² per square meter. Then, the second layer should be applied with a consumption of 0.7-1.2 kg/m² after the first layer has dried completely. It reaches full mechanical strength in approximately in 7 days. The second coat application should be done within 12-24 hours.

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1.0-1.3 kg/m² for approximately 1 mm thickness on each layer (may vary depending on the roughness and absorbency of the surface). It is recommended to apply at least two coats of 2.0-2.6 kg/m² in a total of two coats, depending on the surface roughness.

Cleaning After Application

After application, the tools and equipment used should be cleaned with appropriate solvent. After hardening, it can only be cleaned from the surface mechanically.

Points to Consider

Avoid application at temperatures below +10°C and above +40°C. There are 2 aluminum packages in the 14 kg bucket. Packaging is designed for single use. Once opened, it must be consumed completely within the specified time. Do not add external water or thinning solvent into the product.

After application, the surface should be protected from water, rain, dew, frost and snow until it is completely dry. Working and reaction times of hybrid polymer-based systems are affected by ambient and ground temperature and relative humidity in the air. At low temperatures, the reaction slows down, which extends pan life and operating time. High temperatures accelerate the reaction and the times mentioned above are shortened accordingly.

In order for the material to complete its cure, the ambient and ground temperature must not fall below the minimum allowed temperature. The concrete surfaces to be applied must have attained their 28-day strength.

Packing

It is packaged as 2 aluminum foil packages of 7 kg each and 1 kg aluminum foil package in a 14 kg bucket.

Storing and Shelf Life

The material should be stored in a cool and dry place. The life of the material is 9 months when stored correctly and in its original, unopened packaging. It freezes at temperatures below 0°C.

Health / Safety Information

Comply with the Safety Data Sheet (SDS) prepared in accordance with the EU directives regarding the product.

None of our instructions and technical specifications written herein are binding in general and EXCLUSIVELY in accordance with the protective rights of third parties and do not exempt you from the obligation to carry out the necessary examination to determine the suitability of our products. Our company is not responsible for any damages that may occur as a result of natural damage or due to use and/or product reliability or information and instructions, for whatever reason and to whatever extent.



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