

SUFFIX PUR 550 LV

Polyurethane Based, Single Component,
Liquid Membrane Waterproofing Material

ISOLATIONS

Description of Product

SUFFIX PUR 550 LV is a single component, polyurethane based liquid waterproofing material. It is blinded by moisture in the air. It adheres perfectly to different surfaces, forming a highly elastic and durable film. It shows mechanical and chemical properties and provides high tensile, tear and abrasion resistance. It is effective in water vapor transmission. The film breathes and prevents moisture from accumulating in the lower layer. It has the feature of bridging hairline cracks or tension cracks with its elastic structure. The product contains completely pure elastomeric hydrophobic polyurethane resin and special inorganic additives. Product content depends on the material; It provides excellent resistance in terms of UV, chemical, mechanical and thermal. It is easy to apply.

Areas of Use

SUFFIX PUR 550 LV is used for waterproofing purposes on concrete roofs, verandas and balconies, after preparing a suitable ground under ceramics in bathrooms, on light roofs made of metal and fibrous materials, asphalt membranes, EPDM membranes, bridge platforms, irrigation channels.

Advantages

It has high resistance to UV rays. Since its white color reflects most of the solar energy, it significantly reduces the temperature of the building. It has thermal resistance. It is resistant to cold. The film maintains its elasticity down to -40°C. It has mechanical properties. It does not contain toxic substances after curing. The film breathes; It is effective in water vapor permeability.

Physical Properties

Quality (23°C, 50% RH)	Value	Standard & Method
Appearance	White	-
Viscosity	2500 ± 500	EN ISO 2555
Density (gr/cm ³)	1,45 ± 0,05	EN ISO 2811 - 1
Solids by Weight (% Wt)	85 ± 1	EN ISO 3251
Solids by Volume (% V)	58 ± 1	

Mechanical Properties

Quality (23°C, 50% RH, 7 Days)	Value	Standard & Method
Elongation at Break (%)	> 800	EN ISO 527 ASTM D 412
Breaking Strength (N/mm ²)	> 4	EN ISO 527 ASTM D 412
Adhesion Strength (N/mm ²)	> 2	EN 1542 ASTM D 4541
Surface Hardness (Shore A)	> 70	EN ISO 868 ASTM D 2240

Technical Properties After Application and Cure

Quality (23°C, 50% RH)	Value	Standard & Method
Water Vapor Transmission (gr/m ² , hour)	0,8	ASTM E96
Touch Dry (hours)	6 - 8	-50% RH at 23°C
Recoating Time (hours)	12 - 24	
Full Curing (days)	7	
Application Surface Temperature	min 10°C - max 40°C	-
Application Ambient Temperature	min 10°C - max 40°C	-

Selection of Primer

Highly absorbent surfaces such as concrete, cement screed or wood; Primer application can be started after being previously saturated with SUFFIX PRIMER PUR 2K.

Application Information - Surface Preparation

The surfaces to be applied must be dry and clean. Concrete and mold residues mechanically; Oil, grease, fuel and paraffin waste should be cleaned using chemical solvents. Damaged coatings, unstable surfaces and cracks should be repaired with suitable products.

After the repair, SUFFIX PUR 550 LV should be applied after priming with a suitable epoxy or polyurethane based primer, depending on the surface condition. The concrete surfaces to be applied must have at least the following standards:

Hardness: R28 = 15 Mpa
Temperature: 10-40°C
Relative Humidity: <80%

Preparation of Material

Before applying the product, mix it for 2 - 3 minutes with a suitable mixer at 300 rpm.

Application

SUFFIX PUR 550 LV is applied in 2 layers by spraying or with a brush or roller. It is applied with a total consumption of 1.2-1.8 kg/m², 0.6-0.9 kg/m² on the first layer and 0.6-0.9 kg/m² on the second layer. Do not wait more than 24 hours between coats. If it exceeds 24 hours and it rains on the application surface, the application surface must be sanded. If application by spraying method is planned, the material should be diluted with a suitable thinner to max. Application should be started after diluting to 4%.

Cleaning After Application

The equipment used during application should be cleaned with a suitable solvent immediately after application.

Storing and Shelf Life

It can be stored in its unopened original containers, in dry environments between 15°C and 25°C, for 9 months from the date of production. Material in opened buckets should be used immediately.

Packing

25 kg Bucket

Consumption

0.60-0.90 kg/m² on the first floor
and 0.60-0.90 kg/m² on the second floor;
It is applied with a total consumption of 1.20-1.80 kg/m².

Warnings

Before applying SUFFIX PUR 550 LV, the surfaces that remain damp in the system (Example: moisture under the balcony tiles) should be left to dry completely (max. 5% moisture). It should not be applied on ceramic surfaces containing nitric salts in the joints without appropriate pre-treatment. It should not be applied on surfaces that have been previously treated with silane, siloxane, silicone or other water-preventing substances. If applied, poor adhesion is expected. If clear information about the conditions and history of the surface is not available, an adhesion test is recommended. If a surface with a permanent color is desired, SUFFIX PUR 600 AL should be applied as a top coat over SUFFIX PUR 550 LV in a single layer with a consumption of 0.40-0.50 kg/m².

Safety Precautions

SUFFIX PUR 550 LV contains isocyanate. Contains volatile and flammable solvents. You should not smoke during application and work in well-ventilated environments, away from naked flames. It should not be forgotten that solvents are heavier than air and therefore will circulate on the ground. During application, work clothes, protective gloves, glasses and masks that comply with occupational and worker health rules should be used. Due to the irritating effects of the uncured product, the components should not be contacted with the skin or eyes. In case of contact, it should be washed with plenty of water and soap. If swallowed, consult a doctor immediately. For detailed information, please refer to the Safety Data Sheet (MSDS) or contact our technical units. Keep out of reach of children.

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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