

SUFFIX PUR 1K CLR

Aliphatic Polyurethane Based, Single Component, Transparent,
UV Resistant Waterproofing Material

ISOLATIONS

Description of Product

SUFFIX PUR 1K CLR is a single component, transparent, polyurethane based, high liquid waterproofing material. It becomes moldy with moisture in the air. It adheres perfectly to different surfaces, forming a highly elastic and durable film with UV resistance. 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.

Areas of Use

It can be used on tiles such as marble, ceramics, natural stones, verandas and terraces and wooden surfaces.

Advantages

Easy to apply (roller). When applied, it creates a seamless cover without any joints or possibility of leakage. It is resistant to puddles. It adheres perfectly to the surface. The surfaces on which the product is applied can be walked on. It gives a more transparent appearance to aging and oxidized plastic surfaces. It provides waterproofing of damaged glazed surfaces and prevents the glass from breaking into pieces in case of breakage.

Physical Properties

Quality (23°C, 50% RH)	Value	Standard & Method
Appearance	Transparent	-
Viscosity	400 ± 100	EN ISO 2555
Density (gr/cm ³)	0,98 ± 0,05	EN ISO 2811 - 1
Solid by Volume (%V)	71 ± 1	EN ISO 3251

Mechanical Properties

Quality (23°C, 50% RH, 7 Days)	Value	Standard & Method
Elongation at Break (%)	> 300	EN ISO 527 ASTM D 412
Breaking Strength	> 4	EN ISO 527 ASTM D 412
Tear Resistance (N/mm ²)	> 25	EN ISO 527 ASTM D 412
Adhesion Strength (N/mm ²)	> 1	EN 1542 ASTM D 4541
Surface Hardness (Shore A)	> 55	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)	4 - 6	-50% RH at 23°C
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	-

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 1K.

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 1K CLR application should be started after priming with a suitable 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

Application

SUFFIX PUR 1K CLR is applied in 1-3 layers with a brush or roller. Do not wait more than 24 hours between coats. If it exceeds 24 hours, the application surface must be sanded.

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

5 and 20 liter buckets

Consumption

The consumption of the application in 1 - 3 layers may vary depending on whether the application is for waterproofing or renewal purposes and the absorbency of the surface.

Surface coating against dust and contamination:

~ 0,2 L/m² (1 thin layer application)

Waterproofing membrane (closed porous surface & light pedestrian traffic):

~ 0,7 L/m² (Application in 2 layers, each layer 0.3-0.4 L/m²)

Waterproofing membrane (absorbent surface & heavy pedestrian traffic):

~ 1,0 L/m² (Application in 3 layers, each layer 0.3-0.4 L/m²)

Warnings

Before applying SUFFIX PUR 1K CLR, surfaces that remain damp within the system (Example: moisture under balcony tiles) should be left to dry completely or ventilation chimneys should be used on the application surface. 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 cannot be found, adhesion testing is recommended.

Safety Precautions

SUFFIX PUR 1K CLR 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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