

SUFFIX PUR 1KB

Polyurethane-Bitumen Modified-Based, Single Component, Liquid Waterproofing and Protection Material

Product Definition:

SUFFIX PUR 1KB is a single-component, bitumen-modified, polyurethane-based liquid waterproofing material. Cured with moisture in the air. Forms a highly elastic and durable film by adhering perfectly to different surfaces. In excellent mechanical and chemical characteristics; provides high tension, tearing and wearing resistance. Effective in water vapor transmission. The film breathes and prevents moisture from accumulating on the substrate. Has the characteristic of bridging shrinkage cracks with its elastic structure. Product completely contains pure elastomeric, hydrophobic polyurethane resin and special inorganic admixture materials. Easy-to-use.

Areas of Application:

Used for waterproofing of Foundations, Roofs, verandas and balconies (providing that it is closed), Wet floors, Horizontally and vertically for structural units requiring insulation material in high crack bridging characteristics, Cement based lower layers, Very humid indoor areas, Under bathroom tiles Asphalt, bitumen seals etc.

Advantages:

Applied by a roller as it is a liquid material; it is not

necessary to use open flame (blow torch) during the application. Provides an excellent waterproofing membrane without joint when applied.

Freezing-resistant. Fast curing.

Undercoated or non-undercoated, highly adhesive to almost all types of surfaces.

Excellent thermal resistance; never becomes soft.

Resistant to cold, keeps its elasticity up to -40 °C.

In excellent mechanical characteristics; provides high elongation, tension, tearing and wearing resistance. Excellent chemical resistance.

Application Information:

Surface Preparation:

The application surfaces should be dry and clean. The concrete and mold residues should be mechanically cleaned; oil, grease, fuel and paraffin residues should be cleaned by using chemical solvents. The damaged coatings, unsafe surfaces and cracks should be repaired by using proper products.

The application can be made after applying an epoxy or polyurethane-based undercoating depending on the surface condition following the repair.

Concrete application surfaces should meet these standards below at least:

Hardness: R28 = 15 Mpa

Temperature: 10 - 35°C

Relative humidity: < 80%

TECHNICAL INFORMATION;

PHYSICAL PROPERTIES

QUALITY (23°C, 50% RH)	VALUE	STANDARD & METHOD
Appearance	Black	-
Viscosity	2200 ± 500	EN ISO 2555
Density (gr/cm ³)	1.20 ± 0.05	EN ISO 2811-1
Solid Substance by Volume (V%)	68 ± 1	EN ISO 3251

TECHNICAL PROPERTIES AFTER APPLICATION AND CURING

QUALITY (23°C, 50% RH)	VALUE	STANDARD & METHOD
Ignition Point (°C)	50°C	ASTM D93, Closed Container
Service Temperature (°C)	-40°C // +80°C	-
Short-Term Minimum Temperature (°C)	200°C	-
Water Vapor Permeability (gr/m ² / hour)	0.8	ASTM E96
Touch Drying (hour)	6 - 8	at 23°C - 50% RH
Re-Coating Period (hour)	12 - 24	
Full Curing (days)	7	
Application Surface Temperature	Min. 10°C Max. 40°C	-
Application Ambient Temperature	Min. 10°C Max. 40°C	-

MECHANICAL PROPERTIES

QUALITY (23°C, 50% RH, 7 Days)	VALUE	STANDARD & METHOD
Elongation at Break (%)	>700	EN ISO 527 ASTM D 412
Adhesion Resistance (N/mm ²)	>4.5	EN ISO 527 ASTM D 412
Tearing Resistance (N/mm ²)	>14	EN ISO 527 ASTM D 412
Adhesion Resistance (N/mm ²)	>1	EN 1542 ASTM D 4541
Surface Hardness (Shore A)	>35	EN ISO 868 ASTM D 2240

Material Preparation:

Stir the product by using a proper mixer in 300 rev/min for 2 - 3 minutes before applying it.
CK PROOF PUR 1KB is applied by spraying or using a brush or roller in 2 coats with total 1.5 - 2 kg/m² wastage. Do not wait for more than 24 hours between coats. If application by spraying is considered, application should begin when material (xylene) is diluted up to a maximum rate of 4% with a proper diluent.

Post-Application Cleaning:

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

Storage and Shelf Life:

It can be stored for 9 months if it is properly stored in its unpacked, original package in a dry place between +5°C and +25°C. Material in opened buckets should be used immediately.

Package:

25 kg bucket

Consumption:

First coat: 0.60 - 1.00 kg/m²,

Second coat: 0.90 - 1.00 kg/m²;

A total application consumption of 1.50 - 2.00 kg/m²

CHARACTERISTICS OF APPLICATION SURFACE	Primer EP Barrier	Primer EP	Primer EP Filler	Primer PUR 1K	Primer PUR 2K	Primer PUR 1K TRANS	Primer WB EP
Humidity Rate $\leq 4\%$		✓		✓			
Humidity Rate 4% - 8%	✓						
Humidity Rate 8% - 12%					✓		✓
Uneven Concrete Surfaces with Eyelets			✓				
Metal, Aluminum, Marble, Ceramic, Galvanized Surfaces					✓	✓	
Wood	✓				✓		
PVC				✓	✓	✓	
Highly Absorptive Surfaces				✓	✓	✓	✓
Bitumen Coated Surfaces				✓	✓	✓	✓
Glass, Ceramic and Glazed Surfaces						✓	

Undercoating Selection:

The highly absorptive surfaces such as concrete, cement floor or wood can be undercoated after being filled with SUFFIX PRIMER PUR 1K or SUFFIX PRIMER WB EP in advance.

Safety Measures:

SUFFIX PUR 1KB contains isocyanate. Contains volatile and inflammable solvent. Do not smoke during the application process, and it is necessary to work in a well-ventilated environments away from bare flame. Please note that solvents are heavier than air; therefore it accumulates on the floor. During the application process, the proper work clothes, protective

gloves, goggles and mask should be used pursuant to the occupational health rules. The components should not come into contact with skin and eyes due to the irritating effects of the non-cured product. Wash with plenty of water and soap in case of contact. In case of swallowing, immediately see a healthcare professional. For detailed information, please apply to Safety Information Form (MSDS) or get in contact with our technical departments. Keep out of reach of children.

None of the instructions and technical specifications given is binding SPECIFICALLY pursuant to the protective rights of general and third persons, and it does not make you exempt from the obligation to analyze the compatibility of our products. Our company is not responsible for any loss incurred due to natural hazards or usage and/or product compatibility or information and instructions for any reason or in any scope.

