

SUFFIX PUR 2KB

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

Product Definition:

SUFFIX PUR 2KB is a two-component, polyurethane-bitumen-modified, liquid waterproofing material.

Quickly

cured and forms a quite elastic film by perfectly adhering to different surfaces.

Perfectly adhesive to almost all types of surfaces.

No need for diluent. In excellent mechanical characteristics; provides high tension, tearing and wearing resistance. Excellent chemical resistance. Effective in water vapor transmission. Film is capable of breathing and prevents the accumulation of humidity under the coat. Provides thick coating, no bubbling. Provides high crack bridging.

Excellent covering and adhesive to surface. Easily and quickly applicable, provides easy solutions for detailed insulation applications. Has high thermal resistance;

retains its mechanical property at temperatures between -40 / +80 °C.

Areas of Application:

SUFFIX PUR 2KB is used for waterproofing of roof terrace areas, Parking lots,

Aircraft hangars, Tunnels,

Asphalt and EPDM membranes, Flowerbeds and green roof systems,

Insulation of roofs made of metal or fibrous cement,

Utility water tanks,

Insulation of foundation and shear concretes of constructions, Irrigation channels.

Advantages:

Easy mixing process as the components are in 1/1 volume. Fast curing.

Provides thick coating, no bubbling. Excellent crack bridging.

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

Solvent can be used in some conditions even if there is no need for any diluent. Excellent thermal resistance; never becomes soft. Maximum usage temperature is 80°C, while the maximum shock temperature is 200 °C.

Resistant to cold. Film retains its elasticity up to -40 °C. In excellent mechanical characteristics; provides

high elongation, tension, tearing and wearing resistance. Highly resistant to chemicals. Effective as water vapor barrier.

Applied by a roller as it is a liquid material; it is not necessary to use open flame (blow torch) during the application.

TECHNICAL INFORMATION;

PHYSICAL PROPERTIES

QUALITY (23°C, 50% RH)	VALUE	STANDARD & METHOD
Viscosity	Component A: 1000 ± 50 Component B: 2500 ± 50	EN ISO 2555
Density (gr/cm ³)	Component A: 1.00 ± 0.05 Component B: 1.05 ± 0.05 Mix A + B: 1.02 ± 0.05	EN ISO 2811-1
Solid Substance by Volume (V%)	Mix A + B: 78 ± 1	EN ISO 3251

MECHANICAL PROPERTIES

QUALITY (23°C, 50% RH, 7 Days)	VALUE	STANDARD & METHOD
Elongation at Break (%)	>1500	EN ISO 527 ASTM D 412
Adhesion Resistance (N/mm ²)	>4	EN ISO 527 ASTM D 412
Tearing Resistance (N/mm ²)	>20	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

TECHNICAL PROPERTIES AFTER APPLICATION AND CURING

QUALITY (23°C, 50% RH)	VALUE	STANDARD & METHOD
Mixture Rate	50:50	-
Mixture Life (minute)	30	As A+B mix in 100 g
Ignition Point (°C)	>40	ASTM D93, Closed Container
Service Temperature (°C)	-40 // +80	-
Short-Term Minimum Temperature (°C)	200°C	-
Touch Drying (hour)	8 - 12	at 23°C - 50% RH
Full Curing (days)	7	

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. Damaged coatings, unsafe surfaces and cracks should be repaired with proper products. Upper surface retention of floor should be approximately 1.5 N/mm².

If necessary, the floor should be handled by grinding machines or diamond tools. All surfaces should be dedusted by the help of industrial vacuum tools before the application. Surface is made prepared for application after undercoated by a proper coating so as to provide a insulation pursuant to the life of cover and standards. Concrete application surfaces should meet these standards below at least:

Hardness: R28 = 15

MPa Temperature: 10 - 35°C

Relative humidity: < 80%

Material Preparation:

Stir the product by using a proper mixer in 300 rev / min for 2 - 3 minutes before applying it.

Package:

40 kg sets of which component A (resin) and component B (hardener) rates are designated.

Consumption:

2.0 - 2.2 kg/m²

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.

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 ≤ 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						✓	

Application:

Component A and B of the product are given in separate packages with their mixture rates. Component B is poured into component A and stirred with a hand mixer in 300 rev/min. Material should be used immediately after mixing process. Product's container life is 20 - 25 minutes at 20 °C. The mixture is applied to the prepared surface by using a roller, brush or spatula. Ensure that the floor temperature is above 10°C during the application process. Different coatings should be used for shiny surfaces, metal and aluminum surfaces. Ensure that applied surfaces are protected (direct contact with water) for minimum 24 hours. Minimum consumption is in between 1.50 kg/m² depending on the application surface.

Post-Application Cleaning:

The equipments used during the application should be cleaned by using a proper solvent immediately after the application.

Storage and Shelf Life:

SUFFIX PUR 2KB should be stored with its lid closed. Products should be protected from direct sunlight and freezing risk. Products can be stored for 12 months in dry environment in between 5°C - 25°C. Pallets should not be placed on top of each other.

Safety Measures:

Contains a trace of volatile and inflammable solvents. 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.



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