

Bitumen-Polyurethane Based Liquid Waterproofing and Protection Material

Description:

Single-component, bitumen-modified polyurethane-based liquid waterproofing and protection material. Certified according to EN 1504-2 CE.

Application Areas:

- Foundations
- Roofs, verandas, and balconies (with mandatory coverage)
- Wet floors
- Structures where high crack-bridging properties are required for insulation, applied both horizontally and vertically

Product Features:

- Cures with atmospheric moisture.
- Provides high tensile, tear, and abrasion resistance.
- Exhibits excellent mechanical and chemical properties.
- Adheres perfectly to different surfaces, creating a highly elastic and durable film.
- Effective in water vapor transmission, allowing the film to breathe and preventing moisture buildup beneath the surface.
- Its elastic structure bridges shrinkage cracks.

Application Procedure:

Surface Preparation:

The surfaces to be applied must be dry and clean. Mechanical methods should be used to remove concrete and form residues, while oil, grease, fuel, and paraffin residues should be cleaned with chemical solvents. Damaged coatings, unstable surfaces, and cracks should be repaired with appropriate products.

Concrete surfaces to be applied should meet at least the following standards:

Concrete Surface Condition (Standard):

- Hardness: R28 = 15 MPa
- Moisture: $W < 10\%$
- Temperature: 5-35°C
- Relative Humidity: $< 85\%$

Application Method:

Priming:

After repairs, based on the surface condition, priming should be done with an appropriate epoxy or polyurethane-based primer before applying **eile PUR 1KB**.

Application Method:

Apply in two coats using a spray method, or with a brush or roller, with a total consumption of 1.5-2 kg/m². Do not wait more than 24 hours between coats. If applying with a spray method, the material should be diluted with polyurethane thinner before application.

Consumption:

Total of 2.0 kg/m² for two coats.

Packaging

20 kg in tin buckets

Storage

Store in unopened original buckets in dry environments at temperatures between 5°C and 25°C. Once the bucket is opened, the material should be used immediately.

Shelf Life

9 months from the production date under specified storage conditions.

Technical Specifications

Color: Black

Shore A Hardness:

Viscosity: 5000 ± 500

Density (at 25°C): 1.2

Elongation at Break (%): ≥700

Drying Time: 12 hours (at 25°C and 50% Relative Humidity)

Recoat Time: 12-24 hours (depending on ground and ambient temperature)

Capillary Water Absorption: $W < 0.1 \text{ kg/m}^2 \cdot \text{h}^{0.5}$

Adhesion Strength (by pull-off test): $\geq 1 \text{ N/mm}^2$

Abrasion Resistance: <3000 mg

Impact Resistance: Class 2

Fire Classification: Class E

Hazardous Substances: Compliant with Article 5.3



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The above values are obtained from +23°C, 50% relative humidity conditions. High temperatures shorten, low temperatures extend the times.

Safety Recommendations: During application, appropriate workwear, protective gloves, goggles, and masks in accordance with occupational health and safety regulations must be worn. Avoid contact with skin and eyes; if contact occurs, wash thoroughly with plenty of water. In case of ingestion, seek medical attention immediately. Store out of the reach of children. No food or drink should be kept in the areas where the application is taking place.

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