

PU-B 1K

Polyurethane Based, Bitumen Modified, Single Component, Liquid Waterproofing Material

Description

PU-B 1K is a polyurethane-based and bitumen modified, single component, ready to use liquid waterproofing material.

Fields of Application

- On concrete, stone, fiber-cement sheets and metal surfaces
- In eaves trough and canals
- On terrace roofs
- In cold storage depot
- In swimming pools against water and moisture.

Features and Benefits

- Easy to use, single component, elastic material, it does not flow on vertical surfaces.
- Covers to capillary cracks.
- Provides a seamless, waterproof and protective coat.
- Has high adhesion performance. Shows excellent adhesion even though on aged coatings.
- Highly resistant to aging, diluted acids, bases, salts, chemical substances, mildew, and weather conditions.
- Stable to depolymerization. Can be applied on polyurethane foam.
- Elastic properties prevent the cracks on the surfaces that it is applied.
- Has a high solid substance ratio.
- Resistant to plant roots.
- 72 hours after application, surface will be ready to pedestrian traffic.

Technical Data

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| Content | Bitumen modified polyurethane |
| Density | 1,40-1,50 g/cm ³ |
| Viscosity | 5800 MPa.s |
| Solid Content | 86% |
| Shore A Hardness | 65-70 |
| Elongation at Break | 1000 % (ASTM D412 / EN ISO 527-3) |
| Elongation at 100% force | 0.80-1.20 MPa (ASTM D412) |

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| Full Curing Time | 5 days |
| HS Code | 3208.90.91.00.23 |

Application Procedure

Preparation of Substrate

The surface should be dry, clean and free from all types of grease. The application surface should be dry, have not any wet areas. Otherwise the product results in foaming and swelling on wet parts. Maximum humidity must be 4%. Fresh concrete surfaces should be dried at least 28 days before application.

Application Method

The material should be mixed thoroughly and applied by a brush, roller or spray. Application should be done with at least two coats and thin layers. 12 hours waited is recommended between the layers. Final curing completed after 5 days.

Consumption

At least 1,50 kg/m² for two layers.

Packaging

25 kg metal pail

Shelf Life

12 months in original, unopened package.

Storage

Store in dry area between +5°C and +35°C. Protect from heat, freezing and direct sunlight.

Cleanup Information

Clean tools and equipment with industrial type solvents immediately after use. Dried material can only be removed mechanically.

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Cautions / Limitations

- It may be harmful with skin contact.
- Do not apply in freezing conditions or during precipitation.
- Protect applied materials from rain, freezing, foot traffic and continuous high humidity until completely dry.
- Do not use when air and surface temperatures are below +5°C and above +35°C.

Health and Safety

Warning! Cause eye and skin irritation. If eye or skin contact, get immediate medical attention. If swallowed, do not induce vomiting. Call a physician or poison control center. Never give anything by mouth to an unconscious person.


Wash hands thoroughly after handling. Wear protective clothing, gloves, eye and face protection. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse. Dispose of unused, contents, container and other contaminated wastes in accordance with local, state, federal and provincial regulations.

Keep container closed when not in use. Keep out of the reach of children.

Limited Warranty: This product is subject to a written limited warranty which can be obtained free of charge from BAUMERK Company. Please contact with technical service department for further information and support.

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| 2765-CPR-0082 NO: 01504-235 EN 1504-2:2004 PUB 1K Polyurethane Based, Bitumen Modified, Single Component, Liquid Waterproofing Material System 2+ Poliüretan Esash, Bitüm Modifiyeli, Tek Bileşenli, Su Yalıtım Malzemesi Sistem 2+ | |
| Abrasion Resistance Aşınma Direnci | 303,4 mg |
| Carbondioxide permeability Karbondioksit geçirgenliği | $S_D = 50,14 \text{ m}$ |
| Water-vapour permeability Su buharı geçirgenliği | 2,812 m Class I |
| Liquid-water permeability Kapiler su emme ve su geçirgenliği | $0,004 \text{ kg/m}^2 \cdot \text{h}^{0.5}$ |
| Measurements of bond strength by pull-off Çekip koparma deneyi yoluyla yapışma dayanımı | 0,7 N/mm ² |