

CLASS BPU-940

Bitumen-Polyurethane Two-Component Waterproofing Compound



BENZKIM



Product Overview

It is a two-component, fast-curing liquid membrane material based on bitumen and polyurethane. It adheres effectively to nearly all surface types, creating a highly elastic film.



Application Domains

- In the construction of foundations,
- In retaining walls,
- Roofs and terraces, green roof terraces,
- In the insulation of roof and rain gutters,
- Waterproofing of spaces including bathrooms, kitchens, and balconies (beneath cladding),
- In current applied polyurea repairs,
- In lightweight roofing constructed from metal and fiber materials,
- It is applicable to concrete, wood, and metal surfaces when paired with an appropriate primer.



Technical Specifications

Viscosity	A+B 3500 – 4500 cP
Relative density	1,00 ± 0,05
Ignition Point	42°C
Walkable Duration	16 – 24 Hours
Complete Recovery	5 Days
Reorganizing Time	12 – 24 Hours
Hardness	35 Shore A
Rain Resistance	> 2,2 N/mm ²
Elongation at Fracture	> %2000
Container Living	30 Minutes

The information presented in this technical data sheet is derived from experimental results. The responsibility for the proper application of our original product rests with the user. Our company is solely accountable for the product's quality. This data sheet supersedes the information provided in the previous version. Our company reserves the right to amend any information contained within this data sheet.



Advantages

- It offers significant resistance to chemicals.
- It possesses significant elongation, tensile strength, tear resistance, and abrasion resistance.
- It remains unaffected by adverse weather conditions.
- It possesses significant elasticity.
- It is impervious to plant roots.
- It remains unaffected by the water that accumulates on its surface.



Surface Preparation

Surfaces must be clean, smooth, and intact, devoid of all forms of dust, oil, dirt, rust, mold release agents, detergents, and other substances that inhibit adhesion, as well as waste. In the event of segregation in the concrete, any defective or loose fragments should be removed, and weak areas must be addressed. Should there be cracks or voids in the floor or wall requiring treatment, they should be repaired using suitable Quattro repair mortars. The application of CLASS BT-940 should commence 3-4 days thereafter.



Mixture

CLASS BT-940 must be prepared in accordance with the specified mixing ratio and in the quantity required for use, considering the pot life of both components. To achieve a uniform mixture, it is essential to ensure that the product temperature is maintained at no less than 15°C. Prior to application, the material should be blended until a homogeneous consistency is reached, utilizing a low-speed mixer (300-400 rpm) and an appropriate attachment.



Application Details

CLASS EPX-110 or CLASS PUX-510 should be utilized as a primer on the concrete surface, applied with a brush or roller at a rate of 0.20 - 0.40 kg/m². Primer consumption may vary based on the quality and absorbency of the concrete. Ensure that the primer is completely cured and hardened, allowing a minimum of 4 hours and a maximum of 48 hours before proceeding with waterproofing. In a clean container, devoid of any substances that could hinder adhesion, or in its original container, first mix component A of CLASS BT-940, then incorporate component B. Blend using a low-speed mixer until a homogeneous mixture free of lumps is achieved. The mixing duration should be no less than 3 minutes. The finished, ready-to-use product is then applied to the surface with a stiff-bristled brush or spray machine. Once the material has completed its reaction, the second coat is applied perpendicular to the direction of the first coat. The interval between coats should be at least 5 hours. After the first coat is applied, if no marks are left on the fingers during a manual check, subsequent coats may be applied. If desired, fiberglass reinforcement can be employed as a carrier between the coats.



Consumption

15-2 kg/m² in dual layers



PACKAGING

20 + 20 kg tin



Shelf life

In its unopened packaging, it can be stored for 12 months in a cool, dry location, shielded from sunlight, at temperatures ranging from +10°C to +25°C.



Attention

Avoid applications when the ambient temperature is below +5°C or above +30°C. Do not apply in direct sunlight, rain, or wind. Refrain from applying on surfaces that have been exposed to sunlight for extended periods, are frozen, or are at risk of freezing within 24 hours.

R10: Keep away from children.

R20/22: Harmful if inhaled or ingested.

R52/53: Toxic to aquatic life, may result in long-term detrimental effects in the aquatic ecosystem.

R65: Harmful. May result in lung damage if ingested.

S7: Store in a securely sealed container.

S24/25: Avoid contact with eyes and skin. S28: In the event of skin contact, rinse immediately with ample water.

S29: Do not release into the sewage system.

S46: If ingested, seek medical attention promptly and present the container or label.

LEGAL NOTICE

The information provided herein regarding BENZKIM CLASS products, particularly the recommendations concerning their application and end use, is presented in good faith based on BENZKIM CLASS's current knowledge and experience under standard conditions, provided that these products are stored and applied correctly in accordance with BENZKIM CLASS's guidelines. The variability of products, application surfaces, and application areas in practice is significant. Therefore, when utilizing BENZKIM CLASS products, it is imperative to apply the appropriate product under the correct conditions and in the designated location, while strictly adhering to the information and instructions provided by BENZKIM CLASS regarding commercial suitability and/or suitability for a specific purpose. Failure to do so may result in BENZKIM CLASS being absolved of any responsibility for potential damages. The product user is responsible for testing the product's suitability for the intended application and purpose. BENZKIM CLASS reserves the right to modify the properties of its products. The rights of third parties must be duly respected. All orders are accepted in accordance with our current terms and conditions pertaining to sales and shipping. Users are encouraged to consult the latest version of the local Product Information Sheet for the relevant product, which can be obtained by contacting BENZKIM CLASS.