



BYK PU BP 9103-1K

Polyurethane-Bitumen Based Waterproofing Membrane

BYK PU BP 9103 – 1K is a fast curing, single-component, bitumen enriched polyurethane based liquid material. It adheres strongly to almost any type of surface, forming a highly elastic film. It has excellent chemical and mechanical resistance.

PLACES OF USAGE

- Floors,
- Foundations,
- Roofs,
- Green roofs and plant beds,
- Plaster and cement panels,
- Asphalt membranes/EPDM membranes,
- Bathrooms (under tiles)
- Verandas and balconies (under tiles)
- Water tanks (except drinking water tanks)
- Bridge platforms

ADVANTAGES

- It is cured fast.
- Thick coating application is possible, it does not form bubbles
- **BYK PU TH 901** can be used according to the conditions, even if it doesn't need thinning.
- It is resistant to cold. The film retains its elasticity up to -40°C
- It has excellent mechanical properties; high elongation, tensile, tear and abrasion resistance.
- It shows good resistance to chemicals.
- It functions effectively as a water vapor barrier.

TECHNICAL FEATURES

Specifications	Values	Standards
Color	Brownish, Black	-
Density	1,35±0,05 g/cm ³	ASTM D1475 / DIN 53217 / ISO 2811, 20°C
Hardness	35 Shore A	ASTM D2240 / DIN 53505 / ISO R868
Viscosity	2500-3500 cP	ASTM D 2196-86 / EN ISO 3219 (+25°C)
Concrete Adherence	2,0-2,5 (N/mm ²)	ASTM D4541
Elongation Percentage	600-800%	ASTM D412 / EN-ISO-527-3
Waiting Time Between the Coatings	8-10 hours	-
Re-adding New Layer	10-24 hours	-
Full Drying	7 days	-



APPLICATION PROCEDURE

Apply the material with a brush, roller, spatula or airless sprayer. The used sets and tools must be cleaned with BYK PU TH 901 as soon as possible. The rolls are for single use only. They are not suitable for reuse.

NOTE: The technical specifications written above were written according to the test results performed under 23°C and 50% relative humidity conditions. The values may vary under different temperature and humidity conditions.

Surface Preparations

If possible, the surface should be cleaned using a high-pressure washer; oil, grease, fuel and paraffin residues should be removed, it should also be completely free of mold release agents, cement residues, chips, loose particles and cured membranes.



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Priming

For absorbing surfaces **BYK PU PRIMER 9001 - 1K**, **BYK EP WB PRIMER 9007 - 2K** and **BYK PU PRIMER 9002 - 2K**
For hard and normal surfaces **BYK EP TR PRIMER 9005 - 2K**

Mixing

Apply immediately after mixing equal amounts of the two components by hand or with a mixer running at low speed (300 rpm). The pot life of the mixture is 30-45 minutes at 20 °C.

Application

Apply the material with a brush, roller, spatula or airless sprayer. The used sets and tools must be cleaned with **BYK PU TH 901** as soon as possible. The rolls are for single use only. They are not suitable for reuse.

Consumption

Minimum total consumption: 1,6 kg/m².

Package

It is available in 5kg and 25kg special metal packages.



Shelf Life

It can be stored in its original unopened buckets in dry conditions at temperatures between 5°C and 25°C for a minimum of 12 months. Containers of unmixed components must be kept hermetically sealed until the next use.

Storage

Store in unopened original packaging in a cool and dry place protected from frost. For short-term storage, a maximum of 2 pallets should be placed on top of each other and should be shipped with first in first out. For long-term storage, pallets should not be stacked on top of each other.

Safety Precautions

Flammable and combustible products should be kept away during application. No smoking. Take care to ensure continuous ventilation of the application area. Protective equipment such as goggles and gloves should be used during application. In case of eye contact, rinse thoroughly with plenty of water. Ask for Material Safety Data Sheet for detailed information. Keep out of the reach of children. The product must be used by professional users, taking into account the data in the technical information section.

Disclaimer

The data contained in this white paper is based on our scientific and practical knowledge. **DEMIRKOL TAAHHUT INSAAT SANAYI VE DIS TICARET LTD. STI.** is only responsible for the quality of the product. **DEMIRKOL TAAHHUT INSAAT SANAYI VE DIS TICARET LTD. STI.** cannot be held responsible for the consequences of using the product outside the written recommendations on how and where to use the product and/or misuse. The user is responsible for the correct application of our product. Our company is only responsible for the quality of the product. This catalog supersedes the information contained in the previous catalog. Our company reserves the right to make changes in all kinds of information and content details in this catalog. It is essential to check that the information in the catalog is up-to-date and valid. All rights reserved.



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2404-CPR-bk1047

DOP NO: BYK PU BP 9103 - 1K

EN 1504-2:2004

BYK PU BP 9103 - 1K

Surface protection products, Coating Application (C)/2.2
Surface protection systems Principle 2(MC) 2.2
Coatings)

Water vapor permeability (Water-vapour transmission properties)	Class I
Capillary water absorption and Water permeability	0,009 kg/m ² .h ^{0,5}
Bond strength by pull-off	0,74 MPa
Reaction to fire	E
Hazardous Substances (chemicals dangerous to the environment and health)	Complies with 5.4