

B-FLEX PB 1K

BITUMINOUS ELASTOMERIC MEMBRANE
IN WATER EMULSION



PRODUCT SHEET

DESCRIPTION

B-FLEX PB 1K is a ready-to-use semi-dense paste obtained by blending selected bitumens, special synthetic resins and mineral fillers. The paste is brown when applied and becomes deep black after drying, showing excellent adhesion and remarkable elasticity (>600%). It also adheres very well to vertical surfaces and withstands temperatures below 0°C. It contains no toxic substances or solvents, is easy to apply, highly versatile and ideal both for professional waterproofers and DIY users.

FIELDS OF APPLICATION

- Waterproofing of old and new concrete roofs
- Waterproofing of old and new bituminous membranes
- Waterproofing of green roofs, planters and flowerbeds
- Restoration of existing bituminous membranes
- Retaining walls
- Concrete and metal gutters
- Bonding of insulation boards

PRODUCT DATAS

Base	Water
Mixing ratio	One-component
Composition	Synthetic resins and natural bitumen
Appearance	Paste
Specific weight	1.20 kg/L
Solid content	80%
Dilution	-
Pot life	-

CONSUMPTION

2.0–2.5 kg/m² applied in two coats. Consumption may vary depending on porosity, humidity, temperature and application method.

COLOURS

Brown (turns black after drying)

PACKAGING

Available in 5 kg and 10 kg.

TECHNICAL DATA

Parameter	Result
Elongation at break	>600%
Tensile strength (longitudinal)	1.6 daN/cm ²
Tensile strength (transversal)	2.0 daN/cm ²
Viscosity	7600 cPs
Deep drying time	48 h at 20°C



Date 15/10/2025

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APPLICATION SUBSTRATE PREPARATION

Substrate must be dry, clean, cohesive and free of contaminants (dust, dirt, oils, grease, paints, efflorescence, moss, vegetation).

Concrete substrates must be mechanically prepared by sandblasting, shotblasting, scarifying, bush-hammering or similar methods.

Cracks, holes and irregularities must be repaired with SIGILTOP M or EPOCONCRETE.

Bituminous membranes or PVC must be inspected and repaired before coating.

Metal substrates: sandblast to SA 2½ or mechanically prepare if sandblasting is not possible.

Expansion joints and floor-to-wall transitions must be treated with SIGILTOP M.

PRIMER

PRIMER PU W is recommended for porous substrates, smooth concrete, bituminous membranes, wood and metal.

Consumption depends on porosity. Ensure the primer has dried (dust-free) before applying B-FLEX PB 1K.

Apply the membrane within 72 hours of primer application; otherwise re-prime the surface.

PRODUCT PREPARATION

Ready to use. Stir gently with a low-speed drill to homogenise.

PRODUCT APPLICATION

Apply first coat using a 2.0 mm notched trowel. After curing, apply the second coat using a smooth trowel.

Where reinforcement is required, embed B-TECH FG fiberglass mat wet-on-wet into the first coat.

CLEANING EQUIPMENT

Clean tools immediately with water. Hardened material can only be removed mechanically.

STORAGE

Store in original sealed containers between +5°C and +25°C for up to 12 months.

WARNINGS

- Do not apply below +5°C
- Do not apply in presence of dew
- Do not apply on substrates with >5% moisture or rising damp
- Do not dilute with unsuitable solvents
- Do not apply if rain is expected
- Do not apply in fog or mist

HEALTH AND SAFETY

Refer to the latest Safety Data Sheet for instructions on handling, storage and disposal. Do not release product or empty containers into the environment.

For PROFESSIONAL USE ONLY.



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LEGAL NOTICE

The information and recommendations given above, although they correspond to our best experience, must in any case be considered purely indicative and must be confirmed by exhaustive practical applications. Therefore, before using the product, anyone who intends to make use of it must determine whether it is or is not suitable for the intended application and, in any case, assumes all responsibility that may arise from its use. Always refer to the latest updated version of the technical data sheet, available on the website btechitalia.eu.

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