

B-FLEX PB 2K

TWO-COMPONENT POLYURETHANE-BITUMINOUS MEMBRANE



PRODUCT SHEET

DESCRIPTION

B-FLEX PB 2K is a two-component polyurethane-bituminous liquid membrane with rapid vulcanisation, designed to provide durable waterproofing with high permanent elasticity. It is based on hydrophobic polyurethane elastomers extended with chemically polymerised bitumen, offering excellent mechanical, chemical and thermal resistance. Curing occurs through the reaction of the two components. Solvent-based product.

FIELDS OF APPLICATION

- Waterproofing of concrete slabs
- Waterproofing of retaining walls
- Waterproofing of concrete decks subject to pedestrian or vehicle traffic
- Waterproofing of green roofs, planters and flowerbeds
- Sealant for movement joints and low-traffic control joints

PRODUCT DATAS

Base	Two-component
Catalysis ratio	-
Mix ratio	50 : 50
Composition	Polyurethane-bitumen resins
Appereance	Viscous liquid
Specific weight	1.45 kg/L
Dry residual	-
Dilution	Solvent (5-10%)
Pot Life	40 minutes

CONSUMPTION

1.5-2.5 kg/m² applied in two coats.

Consumption varies depending on substrate porosity, temperature, humidity and tools.

COLORS

B-Flex PB 2K is available in color:

- Black

PACKAGING

B-Flex W is available in packaging of:

- 7 kg - 25 kg



Date 15/10/2025

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Tel. 0131 866312

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TECHNICAL DATA

Test	Value	Standard
Hardness (Shore A)	35-40	ASTM D2240
Thermal resistance (80°C, 100 days)	No significant change	EOTA TR-011
UV ageing	No deterioration	EOTA TR-010
Hydrolysis (5% KOH, 7-day cycle)	No change	-
Service temperature	-30°C to +90°C	-
Short-term temperature	up to 180°C	-
Touch dry	1-3 h	-
Pedestrian traffic	12-24 h	-
Full curing	7 days	-
Water pressure resistance	No leakage	DIN EN 1928
Elongation at break	>2000%	ASTM D412 / DIN 52455
Tensile strength	>2.0 N/mm ²	ASTM D412 / DIN 52455
Adhesion to concrete	>2.0 N/mm ²	ASTM D903

APPLICATION

SUBSTRATE PREPARATION

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

Max substrate moisture: 5% (use carbide or electronic hygrometer).

- **Concrete:** Prepare by sandblasting, shotblasting, scarifying, bush-hammering or equivalent. Repair cracks and defects with SIGILTOP M or EPOCONCRETE.

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

PRIMER

- **PRIMER PU-S** (porous substrates, concrete, bituminous membranes, wood)

Ensure primer is dry (dust-free) before applying.

Apply B-FLEX PB 2K within 72 hours of primer curing or re-prime.



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PRODUCT SHEETS

PRODUCT APPLICATION

- Mix component A thoroughly.
- Mix component B separately.
- Pour component B into A and mix until homogeneous.
- Allow to rest for 10 minutes.
- Avoid excessive mixing to limit air entrapment.
- Use low-speed mixer (300–400 rpm).

CLEANING EQUIPMENT

Clean tools immediately with Solvent. Hardened product can only be removed mechanically.

STORAGE

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

WARNINGS

- Solvent-based product – flammable
- Do not apply below +5°C
- Do not apply if dew is present
- Do not apply on substrates with >5% moisture or rising damp
- Do not dilute with water
- Do not apply if rain, fog or mist is expected
- Allow substrate to fully dry after washing

HEALTH AND SAFETY INFORMATION

For information and advice regarding safe handling, storage and disposal of chemical products, the user must refer to the latest version of the Safety Data Sheet, containing physical, toxicological and other safety-related data. Do not release the product or empty containers into the environment.

Product for PROFESSIONAL USE ONLY.

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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