

B-FLEX W

SINGLE-COMPONENT MEMBRANE IN
ACRYL-POLYURETHANE RESIN



DESCRIPTION

B-Flex W is a single-component liquid membrane in acryl-polyurethane resin, water-based moisture curing. The Pro Extra resin is equipped with special polymers that make the waterproofing extremely elastic. Once the hardening process is complete, the product has a very resistant plastic consistency, despite being able to maintain an elongation capacity of 500% even at temperatures above 20°C. B-Flex W has been designed for undertail waterproofing of screeds.

FIELDS OF APPLICATION

- Under-tile waterproofing (C2 TE glue)
- Waterproofing of old and new concrete roofs;
- Waterproofing of old and new roofs in bituminous sheath;
- Waterproofing of terraces and balconies (even tiled);
- Waterproofing concrete decks subject to pedestrian and vehicular traffic;
- Waterproofing roof gardens, flowerbeds and pots;
- Waterproofing and coating old membranes in bitumen, EPDM, PVC, resin;
- Waterproofing and protection of corrugated sheet metal roofs;
- Asbestos fiber cement encapsulation;
- Roof waterproofings showing intricate details, even with limited accessibility;

PRODUCT DATAS

Base	Water Base
Catalysis ratio	Single-component
Mix ratio	-
Composition	Acrylic-polyurethane resins
Appereance	Viscous liquid
Specific weight	1,20 kg/lit
Dry residual	65%
Dilution	Water (5-10%)
Pot Life	60 min

CONSUMPTION

1.0 - 2.0 kg/m² (applied in two layers)

This consumption is based on an application on a smooth surface in excellent condition. Factors such as an extremely porous surface, temperature, degree of humidity and methods of application, can alter the consumption of the product.

COLORS

B-Flex W is available in color:

- White
- Grey
- Red



Date 15/10/2025

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PACKAGING

B-Flex W is available in packaging of:

- 7,0 kg
- 25,0 kg

Test	Value	Standard
Elongation at break	> 500%	ASTM D 412
Permeability to water vapour	> 15 gr/mq/day	ISO 9932:91
Resistance to pressurized water	No losses	DIN EN 1928
Adhesion to concrete	> 1,2 N/mm2	ASTM D 903
Hardness	> 60 (scala shore A)	EN ISO 868

APPLICATION

PREPARATION OF THE SUBSTRATE

The preparation of the support is essential for an excellent result and a long duration. The substrate must be perfectly dry, clean, compact, cohesive and free from any contamination (dirt, dust, grease, oil, paint, saline efflorescence, moss, vegetation, etc.) which can in any way affect the adhesion of the membrane. The relative humidity of the substrate must not exceed 5% (to establish the degree of humidity it is necessary to use a digital hygrometer or a carbide hygrometer).

- **CLS substrates, cement screeds:** depending on the type of substrate, the surfaces must be adequately prepared by sandblasting, shot blasting, mechanical scarification, bush-ammering or other methods to be assessed on the basis of the specific case. Any depressions, holes or cracks must be restored in advance with suitable products (Sigil Top M or Epostuc S) to be chosen on the basis of the thickness to be restored.
- **Support in bituminous membrane or PVC:** inspect the membrane in order to identify any damage present, such as blisters, tears and detachments. Repair before proceeding with system application.
- **Metal support:** check the condition of the support and then carry out a SA 21/2 degree dry sandblasting cycle. In cases where it is not possible to use the dry sandblasting system, a different preparation of the substrates is required, such as brushing or mechanical cleaning with scraping or percussion tools.

Before installing the system, pay particular attention to the expansion joints, to the joints between horizontal and vertical surfaces which must be suitably treated with medium modulus polyurethane sealant (Sigil Top M).

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PRIMER

The type of primer varies according to the type of substrate:

- **PRIMER PU W** (porous substrates, slippery concrete, concrete, bituminous membrane, wood)
- **ECT** (wet media)
- **PRIMER POX W** (metal substrates)

Primer consumption is directly proportional to the porosity of the substrate to be primed. Before applying the product, make sure the primer is hardened (dust free). It is important to apply the product no later than 72 hours after applying the primer, if this is not possible, a new application of the primer will be necessary.

PRODUCT PREPARATION

Single-component product ready to use. No mixing necessary, but it is recommended to mix the contents of the container, using a drill at low speed, to obtain perfect homogeneity of the product.

PRODUCT APPLICATION

The product is applied with conventional techniques: brush, roller or airless system*. After having prepared and primed the substrate, proceed with the application of B-Flex W evenly in at least two coats.

*for applications using an airless system it is necessary to dilute the product by 5 - 10% with water.

CLEANING EQUIPMENT

Clean all tools and equipment immediately after use with water. Hardened product can only be removed mechanically.

STORAGE

The product must be kept closed in original packagings, sealed and stored in a fresh and dry place for maximum 12 months at a temperature +5/+25 C. Please refer to SDS and label of the packaging too.

WARNINGS

- Do not apply the product at temperatures below 5°C;
- Do not apply if there is dew on the substrate;
- Do not apply on damp surfaces with residual humidity > 5% or subject to rising damp;
- Do not use on recently built bituminous membranes (< 6 months), wait for complete oxidation of the surfaces to be treated;
- Do not dilute the product with unsuitable solvents;
- The product may show slight superficial chalking;
- Do not apply if the weather threatens rain;
- Do not apply if there is mist or fog;
- If water is used to clean the substrate, it is necessary to let it dry before applying the cycle;

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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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