

POWER FLEX

ONE COMPONENT MEMBRANE IN
POLYURETHANE RESIN



DESCRIPTION

Power Flex is a one component membrane in polyurethane resin with high elasticity, hygro-hardening, cold applicable. Power Flex is based on a new technology, developed to avoid the formation of bubbles typical of one-component products based on polyurethane resin. This new formulation allows application on damp and wet substrates, it combines the high performance of traditional polyurethane resin technology with a hardening system without the formation of bubbles and low emissions. Power Flex forms a resistant protective sheath that waterproofs the substrate. It can be applied without primers.

FIELDS OF APPLICATION

- Waterproofing of old and new concrete roofs
- Waterproofing of old and new roofs in bituminous sheath
- Waterproofing of hanging gardens, flower beds and pots
- Waterproofing and coating of old membranes in bitumen, EPDM, PVC, resin.
- Waterproofing and protection of corrugated sheet roofs
- Waterproofing and protection of fiber cement roofs
- Waterproofing of roofs showing complex details even with limited accessibility
- Waterproofing and protection of EPS panels (sintered expanded polystyrene)
- Protection of concrete structures

PRODUCT DATAS

Base	-
Catalysis ratio	-
Mix ratio	-
Composition	Polyurethane resins
Appereance	Self-leveling paste
Specific weight	1.40
Dry residual	-
Dilution	BTech Solvent (5 - 10 %)
Pot Life	2h

CONSUMPTION

1.5 - 2.0 kg/sqm (applied in two or three layers)

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

COLORS

Power Flex is available in color:

- Grey

PACKAGING

- Power Flex is available in packaging of:
- 6.0 kg
- 25.0 kg



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PRODUCT SHEET

Test	Value	Standard
Hardness (SHORE A scale)	56 N/mm ²	DIN 53505
100% elastic module	2.2 N/mm ²	ISO 37 DIN 53504
Breaking resistance	4.0 N/mm ²	ISO 37 DIN 53504
Elongation	800%	ISO 37 DIN 53504
Tear resistance	12 N/mm	ISO 34-1
Temperature resistance	from -40°C to +100°C	-

APPLICATION

PREPARATION OF THE SUBSTRATE

Preparing base is essential for a great result and long service life. The base must be perfectly dry, clean, compact, cohesive and free from any contamination (dirt, dust, fats, oils, paints, salt efflorescences, moss, vegetation, etc.) that can somehow affect the adhesion of the membrane.

- **CLS supports, cement screeds:** depending on the type of support, it is necessary to prepare properly surfaces by blasting, sandblasting, mechanical scarification, rejection or other method to be assess yourself on the basis of the specific case. Any holes or cracks must be restored with suitable products (Sigil Top M or Epostuc S) to be chosen according to the thicknesses to be restored.
- **Bituminous membrane or PVC support:** check the membrane to identify any damage present, such as boiling, lacerations and distasions. Perform the repair before application of the system.
- **Metal support:** check the status of the support and then perform a blasting cycle at grade SA 21/2. In cases where it is not possible to use the dry blasting system, it will be necessary a different preparation of the supports, brushing or cleaning with scraping.

Before laying the system, pay special attention to the expansion joints, the fittings between horizontal and vertical surfaces that must be suitably treated with polyurethane sealant form (Sigil Top M).



Date 15/10/2025

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PRODUCT SHEET

PRIMER

The primer is not necessary for the application of Power Flex, however to increase the level of adhesion to the base and make a barrier against steam you can use a primer. The type of primer changes depending on the type of media:

- **PRIMER PU-S** (porous supports, slippery concrete, CLS, bituminous sheath, wood)
- **PRIMER POX S** (metal supports)
- **PRIMER T** (non-porous supports such as ceramics)
- **PRIMER T-1** (PVC)

The consumption of the primer is directly proportional to the porosity of the support to be primed. Before apply the product make sure that the primer is hardened (out of dust). It is important to apply the product no later than 72 hours after the application of the primer, if it is not possible, it will be necessary a new application of primer.

PRODUCT PREPARATION

One-component product ready to use. Unnecessary mixing, but it is still recommended to mix the contents through low-turn drills, to obtain a perfect homogeneity of the product.

PRODUCT APPLICATION

The product is applied with conventional techniques: brush, roller or airless system*. After preparing the base proceed with the application of Power Flex evenly in at least two layers. Where it is required it is possible to arm waterproofing by fresh application on the first hand, through fiberglass fibre (BTECH FG).

*for applications via airless system it is necessary to dilute the product at a rate of 5 - 10 % with BTECH Solvent.

18 h	+5 ° C / 50% R.H.
12 h	+10 ° C / 50% R.H.
6 h	+20 ° C / 50% R.H.
4 h	+30 ° C / 50% R.H.

Note: These timings are approximate and may be affected by changes in conditions, especially temperature and humidity.

CLEANING TOOLS

Cleaning equipment: Clean all tools and equipment immediately after use with specific diluent (alcohol). The hardened product can only be removed mechanically.

Undaved waterproofing

1 Power Flex	0.75 kg/sqm
2 Power Flex	0.75 kg/sqm

Armed waterproofing

1 Power Flex	1.00 kg/sqm
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Undaved waterproofing

1 Power Flex	0.75 kg/sqm
2 Power Flex	0.75 kg/sqm

Armed waterproofing

1 Power Flex	1.00 kg/sqm
2 FG*	-
3 Power Flex	0.75 kg/sqm

Metal waterproofing

1 Floor Fix 84*	0.07 kg/sqm
2 Power Flex	0.75 kg/sqm
3 Power Flex	0.75 kg/sqm

*see the technical data sheet of the product.

STORAGE

The product must be stored in the original packaging, closed and sealed in a dry place and away from heat sources, at a temperature between +5°C and +25°C for up to 12 months. Refer also to the storage recommendations on the safety data sheet and on the label on the packaging.

WARNINGS

- Do not apply the product at temperatures below 5°C;
- Do not use on newly made bituminous sheath (< 6 months), wait for the complete oxidation of the surfaces to be treated;
- Do not dilute the product with water;
- Do not dilute the product with wrong solvents;
- The product may show slight surface lightening;
- Do not apply if it is going to rain;
- Do not apply by direct food contact;
- Do not apply on surfaces in constant immersion;
- Do not apply on highly trafficked surfaces;

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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