

CP-01

WATERPROOFING ELASTIC CEMENTITIOUS MORTAR



DESCRIPTION

BTECH CP-01 is a one-component cementitious waterproofing mortar. It is composed of cementitious binders, graded quartz sands, highly flexible resins and specific additives that enhance waterproofing performance, adhesion and sulphate resistance.

CP-01 meets the requirements of UNI EN 1504-2 for concrete surface protection systems and UNI EN 14891 for waterproofing under liquid-applied membranes. It is used as a flexible, waterproof protective coating for concrete, plaster, screeds, bathrooms, showers and pools. It is also used as a waterproofing layer prior to tile installation, both indoors and outdoors, and can replace traditional bituminous membranes on retaining walls.

FIELDS OF APPLICATION

- Plastered surfaces
- Concrete substrates
- Under-tile waterproofing
- Retaining walls waterproofing
- Concrete tanks waterproofing
- Waterproofing of bathrooms and pools before ceramic installation

PRODUCT DATAS

Base	One-component
Catalysis ratio	1 : 5 (20 L / 100 kg product)
Mixing ratio	-
Composition	Polymer-modified cement
Appearance	Powder
Specific weight	-
Dry residue	100%
Dilution	-
Pot Life	60 minutes
Consumption	1.3 kg/m ² per coat



Date 15/10/2025

Str, Via Piero Gobetti, 8,
15057 Tortona AL
Tel. 0131 866312

info@btechitalia.eu
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TECHNICAL DATA

Parameter	Result	Standard
Adhesion to concrete (7 days)	0.6 N/mm ²	EN 1542
Adhesion to concrete (28 days)	1.0 N/mm ²	EN 1542
Thermal compatibility freeze-thaw	0.8 N/mm ²	EN 1542
Static crack bridging at -20°C	class A3	EN 1062-7
Water vapour permeability	Sd = 2.5	EN ISO 7783-1
Capillary absorption	< 0.05	EN 1062-3
CO ₂ permeability	> 50	EN 1062-6
Water impermeability under pressure	No penetration	EN 14891
Crack bridging (+20°C)	0.9 mm	EN 14891
Crack bridging (-20°C)	0.8 mm	EN 14891
Initial adhesion	0.8 N/mm ²	EN 14891
Adhesion after water immersion	0.55 N/mm ²	EN 14891
Adhesion after heat ageing	1.2 N/mm ²	EN 14891
Adhesion after freeze-thaw cycles	0.6 N/mm ²	EN 14891

APPLICATION

SUBSTRATE PREPARATION

The substrate must be perfectly dry, clean, compact and free from contaminants such as dust, dirt, grease, oils, paints, efflorescence, moss or vegetation. Repair cracks or imperfections using suitable mortar. After full curing, sand the repaired areas and remove all dust.

PRODUCT PREPARATION

Mix CP-01 with clean water (5 parts powder : 1 part water). Add powder gradually while mixing at low speed until a homogeneous, lump-free slurry is achieved. Allow to rest for a few minutes, then remix before application.

PRODUCT APPLICATION

Apply with a trowel or airless system. Apply two coats, each with a maximum thickness of 2 mm. Apply the second coat after 4-5 hours depending on temperature. Protect the surface from rain or high temperatures during curing. Where cracks are present, embed fiberglass mesh. Tiles may be installed after at least 48 hours.



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CLEANING EQUIPMENT

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

STORAGE

Store in original sealed packaging in a dry place between +5°C and +25°C for up to 12 months.

WARNINGS

- Apply between +5°C and +35°C.
- Do not apply on water-saturated substrates.
- Do not add water during curing.
- Only add clean water; do not add other products.

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.

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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