

BETOPAINT FLEX

Elastic, anti-carbonation paint for concretes and mortars

BETOPAINT FLEX is an elastic coating for protecting concretes and mortars against carbonation, developed on the basis of acrylic copolymers in aqueous dispersion, with a single component, impermeable with a decorative finish that is resistant to atmospheric agents. It complies with the requirements of standard EN 1504-2.

FIELDS OF APPLICATION

- Protection of reinforced concrete and mortar surfaces against carbonation.
- Preventive protector in new concrete projects located in aggressive environments.
- Protective and decorative coating for refurbishment works using repair mortars: Columns, beams, joists, wrought iron edges and slabs.
- Coating reinforced and pre-fabricated concrete structures subject to movements and deformations that may cause micro-fissures.
- High quality decorative finish for façades.

PROPERTIES

- It avoids concrete carbonation, thanks to its high carbon dioxide diffusion strength
- Permeable to water vapour, allowing the substrate to transpire.
- Its great elasticity allows it to bridge micro-fissures, and also withstand thermal expansions of the substrate.
- Very good adhesion strength to traditional construction substrates.
- Resistant to UV rays. Great colour stability and durability.
- Impermeable to rainwater and gritting salts.
- Excellent weather and ageing resistance.
- Coloured, decorative finish. It improves the aesthetic appearance of the protected surface.
- Easy to apply and with zero toxicity, solvent-free.

HOW TO USE

Preparing the substrate:

The substrates must be firm and resistant, clean, free of any loose particles, oils, grease, dust, old paint remains, release agents and superficial slurries. If necessary, it is advisable to use water blasting or sandblasting.

The substrate must be dry. The substrate temperature must be at least 5 °C and at most 35 °C.

Mixing:

BETOPAINT FLEX is supplied ready to be applied; however, it must be mixed before being used. Preferably use a low revolution electric mixer and mix until the product is completely even.

Up to a maximum of 5-8 % of water can be added to not alter its properties.

Primer:

Generally a first coat of **BETOPAINT FLEX** diluted with 5-8 % water, will be used.

A coat of **PROPAM PRIMER SOL** can be applied to very absorbent or powdery substrates.

Application:

BETOPAINT FLEX can be applied with brush, roller or “air-less” gun, undiluted, to the dry primer, leaving it to dry at least 8-10 hours.

The second layer (and subsequent ones if applicable) can be applied, undiluted, to the previous dry layer.

Tool cleaning:

While the product is still fresh, the tools can be cleaned with just water. Once hardened, it can only be removed mechanically.

COVERAGE

The recommended consumption is 300-400 g/m² according to the porosity of the substrate. However, the amount used in the end will depend largely on the required finish, the site conditioning factors and the expected use.

PACKAGING

20 kg packages

Colour: Grey and white. Other colours available on request.

STORAGE

24 months, in its original closed packaging, in a fresh, covered place, protected from moisture, sunlight and freezing temperatures.

INDICATIONS TO TAKE INTO CONSIDERATION

- Apply at temperatures between +5 °C and +35 °C.
- Do not use under permanent immersion.
- Do not apply to wet surfaces.
- Do not apply with relative air humidity above 80 %.
- Do not apply when rain is expected.
- On smooth or highly non-porous substrates, it is advisable to use an abrasive treatment, for example, sand-water blasting, to open up the pores.
- The old coatings must be completely removed and the substrate must be resistant enough. Carry out adherence tests, where average adherences must be obtained of > 0,8 N/mm²

TECHNICAL DATA

Type	Acrylic copolymers in aqueous dispersion
Finish	Matt
Density	1.40 ± 0.5 g/cm ³
Content in dry solids	59 ± 5 %
Thinner	Water
Viscosity	105 ± 5 K.U
Application temperature	+5 °C to +35 °C
Dry to the touch time (20 °C)	Approx. 30 min.
Minimum repainting time	8-10 hours, maximum no limit
Hardness Shore A (7 days)	> 80
Cracking resistance (2 layers of 250 g/m²)	Class A3 > 500
Content in Volatile Organic Compounds (VOC)	< 25 g/l (Cat A/c)

CE MARKING

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EN 1504 - 2

Product for surface protection
Coating (C)

Reaction to fire	Bs1d0
CO ₂ permeability	S _d > 50 m
Water vapour permeability	Class I: S _d < 5 m
Capillary absorption	≤ 0.1 kg/m ² .h ^{0.5}
Adhesion	≥ 0.8 N/mm ²
Emission of hazardous substances	See SDS

HEALTH AND SAFETY

All the information about conditions of usage, use, storage, transport and removing chemical waste is available on the product Safety Data Sheet.
The product and its packaging must be disposed of according to current legislation and it is the responsibility of the product end user.

LEGAL NOTICE

The data contained in this document are based on our experience and technical knowledge, gained during laboratory assays, and our bibliography. We will not be responsible for any other product applications not indicated in this file. The dosage and consumption data are only guidelines, based on our experience, and may alter due to atmospheric or on-site conditions. For correct dosage and usage amounts, it is necessary to conduct a trial or assay "in situ", for which the client is responsible. If you have any doubts or require additional information, please contact our Technical department. December 2016.



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