

Anti-carbonation paint for concretes and mortars.

BETOPAINT is a 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 to protect and improve the aesthetic finish on all kinds of concrete pre-fabricated elements.
- High quality decorative finish for façades.

PROPERTIES

- High anti-carbonation protection.
- Permeable to water vapour, allowing the substrate to transpire.
- Very good adhesion strength to traditional construction substrates.
- Very high weather and ageing resistance.
- Impermeable to rainwater and gritting salts.
- It improves the aesthetic appearance of the protected surface.
- Matt finish.
- Easy to apply and with zero toxicity, solvent-free.

HOW TO USE

Preparing the substrate:

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

The substrate can be damp, but not wet. The substrate temperature must be at least 5 °C and at most 35 °C.

Mixing:

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

Application:

BETOPAINT can be applied with brush, roller or "air-less" gun. According to the porosity of the substrate, the first layer can be applied as a self-primer layer diluted with 10-12 % water.

The second layer will be applied with maximum 5 % dilution, at least 4-6 hours after the first primer layer.

BETOPAINT dries to the touch approximately 45-60 minutes after being applied.

If applying with an air-less gun, it can be diluted up to 15-20 %.

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 100-150 g/m² for the first coat and 150-200 g/m² for the second coat, 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

25 kg packaging
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 % or under the dew point.
- Do not apply when rain is expected.
- Non-photoreticulable. It cures and hardens away from the sun.
- 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

Product base	Acrylic resin in dispersion with inorganic binders
Density	1.70 ± 0.05 g/cm ³
Viscosity	105 K.U. a 25 °C
Non-volatile material	72 ± 5 %
Solids in volume	42 ± 5 %
Application temperature	Between +5 °C and +35 °C
Dry to the touch time (20°C)	45 - 60 minutes
Minimum repainting time	4-6 hours, maximum no limit
Bond strength by pull-of (EN 1542)	2.9 N/mm ²
Water-vapour permeance (permeability) (EN ISO 7783-2)	3.5E-05 g/m ² x day x Pa
Impact resistance (EN ISO 6272-1)	> 20 Nm (class III)
Content in Volatile Organic Compounds (VOC)	< 25 g/l (Cat A/c)

CE MARKING



EN 1504 - 2

**Product for surface protection
Coating (C)**

Reaction to fire	Class B s1 d0
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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