

0746 BETON PROTECT

ANTI-CARBONATION CONCRETE PROTECTIVE, WITH FILM PROTECTED AGAINST THE GROWTH OF A WIDE RANGE OF ALGAE AND MOULD.



Advantages

- High strength and adhesion
- Anti-carbonation barrier

Description and Use

BETON PROTECT is based on a special acrylic resin water emulsion, and it is used to protect and to level concrete surfaces and civil plaster; with film protected against the growth of a wide range of algae and mould and , prevents damages due to the cold, avoiding the rain penetrates into the substrate.

The product ensures high resistance to carbon dioxide penetration, thus reducing substrate carbonation (UNI EN 1504-2 standard, type 4 conformity attestation system for low performance uses and requirements) and therefore the corrosion of reinforcing metal rods.

The product can be coloured using ADVANCE HT tinting system.

Substrate preparation

The concrete must be sound, fully set and dry.

Clean off any dismantling oil residue, flaking material and dirt.

If mould or algae are present, treat the substrate with DECISO code 0610.

Remove all loose parts until you get to the rods.

Buff thoroughly or sand the reinforcing bars to bare metal; get rid of rust and dust.

Treat the rods with a passivating grout; spread a fiber-reinforced mortar suitable for high thickness restoring, and next even out with a suitable levelling compound; allow any patching to rest before treating with the fixative-insulating agent solvent-based CLIM-O-PAINT PRO code 1004 or water-based SUPERFIX code 0010 or GREY FIX code 0011.

Make sure the surface is dried, then continue applying two coats of BETON PROTECT properly reduced.

Application

Application method:

- brush
- roller
- airless spraying: we recommend the use of piston or diaphragm pumps with high pressure electric or gasoline engines (200-250 bar). Choose nozzle and spraying angle depending on the structures to be treated: the angle should not be lower than 17 (0.017 inches = 0.43 mm) and not higher than 23 (0.023 inches = 0.58 mm) and the nozzle must be self-cleaning. The spraying angle of the nozzle is very important in order to optimize the spraying.

Product preparation:

Mix to achieve even colour and consistency.

Dilution:

by weight: 10-15% water for the first coat, 5-10% for the second one.
by volume: 15-20% water for the first coat, 10-15% for the second one.
When using Base ED, dilution should be reduced by 50%.

Recoating:

Wait for 4-6 hours between the two coats.

Storage life

PROTECT FROM FROST. Store the packaged product at a temperature between +5°C and +35°C.

If stored in a cool, dry place, away from sources of heat and sheltered from sunlight, in its sealed original packaging, the product has a shelf life of 24 months. Check the product's shelf life by referring to the production lot shown on the packaging. The lot number comprises of eight numeric characters in which the first four digits identify the year and month of production. Once the product has expired, it must be disposed of in accordance with current legislation.

Technical features

Color	white
Binder	acrylic modified dispersion
Appearance of the dry film	satin
Specific weight	1.29 kg/l (± 0.02)
Viscosity	10000-12000 mPa.s Brookfield
Resistance to washing	excellent (UNI 10795) > 35000 cycles Gardner (UNI 10560)
Liquid water permeability	class III (low), $W < 0.1 \text{ kg(m}^2 \cdot \text{h}^{0.5})$ UNI EN 1062-3
Water vapour transmission rate (classification EN 1062-1)	class II (medium), from 0.14 to 1.4 Sd(m) EN ISO 7783
Water vapour transmission rate (classification EN 1504-2)	class I, Sd < 50(m) EN 7783
Carbon dioxide permeability	class C1, Sd > 50(m) EN 1062-6
Practical cover rate *	3-5 m ² /l with two coats
Air drying (20°C - 65% RH)	1-2 hours, dry to touch
EU limit values for VOC content (Directive 2004/42/EC)	Cat. A/c, WB: max VOC 40 g/l product VOC < 40 g/l
* The yield may vary according to the roughness and absorption of the substrate and in relation to the application system used.	
The data are measured at a temperature of 20° C	

Warnings

- Product recommended for expert users.
- Always read the safety datasheet before use.
- The recipient/product must be disposed of in accordance with national laws.
- Wear protective gloves and garments, and in the event of contact with the skin wash with plenty of water and soap.
- During use, ventilate the room well and use water to clean tools.
- Surface and ambient temperature must be above + 5 (41°F) and below 35°C (95°F).
- Do not apply in foggy or rainy weather, or when the relative humidity exceeds 75%.
- Exterior applications need to be protected from rain for at least 48 hours, and in any case until complete drying.
- It is recommended to acquire all the material required to finish the work of the same batch.
- The information provided on this technical datasheet is based on our technical and practical knowledge and experience. The technical data refer to the average characteristics of the basic product and are determined under controlled laboratory conditions. The variability of the raw materials available on the market and the tinting of the product can lead to slight deviations in the declared values, in the colour and in the aesthetic effects obtained. It is therefore necessary for the purchaser/user to personally verify, before application, the suitability of the product for the intended use, in particular when different batch numbers of the same material are used in the same work/site.

The above mentioned data are meant to facilitate our customers in the use of our products. IMPA is not responsible for applications of products carried out beyond its direct control. For further technical information about specific systems and/or special applications, please contact our TECHNICAL SERVICE at assistenza.technica@impa.it.