

# IMPRE BETON

## Anti-carbonation paint

**Description:** Solvent-based protective and decorative paint, formulated with selected synthetic resins and special additives, specific for preventing the carbonation of concrete structures.

**Advantages:**

- anti-carbonation protection of concrete structures.
- forms a film that is waterproof but permeable to vapour.
- high resistance to the penetration of CO<sub>2</sub> present in the atmosphere.
- perfect adhesion to the surface.
- rapid drying.
- suitable to be applied also in winter.
- gives excellent resistance to chalking of the treated surfaces.
- protects against aggressive atmospheric agents.
- prevents rusting on the reinforcement bars

**Applications:** Suitable to coat:

- concrete and fibre-cement walls and structures.
- fibre-cement slabs
- wood and metal surfaces, plaster, pantiles and roof tiles.

**Surface preparation:**

- Make sure that the surface is free from detached parts, loose debris or non-adherent parts, coatings, rust, powder, or release oils. Carefully clean the surfaces, which must be solid, even, and dry and in the case of concrete surfaces must not have been previously treated with evaporation retardant products.
- Apply at temperatures between +5°C and +35°C; avoid extremely hot or cold conditions during application and drying of the film.

**Application:**

- The product is ready to use.
- Apply Impre Beton, after mixing, by brush, broom, roller or airless spray. It is possible to dilute the product up to a maximum of 20% using nitro or synthetic thinners.
- Apply in 2 cross coats. The second coat should be applied when the first is perfectly dry (after approx. 3 hours).
- On particularly porous surfaces it is advisable to apply a coat of Impre Beton diluted up to 20% as an adhesion primer.
- Use common synthetic thinners to clean tools.

**Consumption:** Average consumption per single coat of product depends on the nature and porosity of the material to be treated and varies between 0.15 and 0.20 L/m<sup>2</sup>.

**Warnings:**

- Do not use indoors or in non-ventilated premises.
- It is advisable not to exceed the consumption indicated above, because the film may not dry perfectly in depth.
- Do not apply on very hot surfaces as the process of formation of the paint film would be excessively accelerated with negative consequences on the cohesion and adhesion of the product to the surface.
- Check (according to UNI 10329) that the residual humidity content of the cement surface to be treated is  $\leq 5\%$  by weight (for screeds with a density of 2000 kg/m<sup>3</sup>).
- Do not apply in case of rain or high humidity while the film is drying.
- In any case, we recommend carrying out a preliminary application test to check whether the product is compatible with the surface.

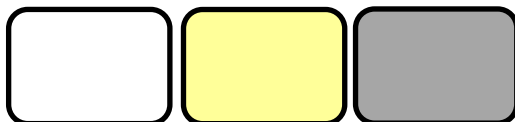
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- Do not use for surfaces or containers of edible liquids, for drinking water or that may come into contact with solvents or mineral oils.
- Do not paint tanks, basements or channels subject to strong water backpressure or pressurised water.
- Flammable product.
- Store in tightly sealed original packaging.
- Do not expose to direct sunlight, temperatures higher than 40 °C, heat sources, open flames or other sources of ignition.
- Comply with the information on the safety data sheet.
- Consult the information at the bottom of this document.

**Packaging:** 1, 5, 10, 20, and 25 L metal pails.

**Available colours:**



**Technical data:**

MAIN CHARACTERISTICS		
Appearance		Liquid
Colour		grey, white, cream
Shelf life in closed original packaging		24 months
Closed-cup flash point	ASTM D3828-87	>+23 °C
Solid content ( <i>m/m at 130 °C</i> )	EN ISO 3251	Grey (64-72)%
		White (49-55)%
		Cream (64-72)%
Viscosity ( <i>Flow time at 25 °C, <math>\phi</math> 4 mm cup</i> )	EN ISO 2431	Grey 150-190 seconds
		White 140-170 seconds
		Cream 150-190 seconds
Density ( <i>at 20 °C</i> )	EN ISO 2811-1	Grey (1.24-1.32) kg/L
		White (1.13-1.19) kg/L
		Cream (1.31-1.39) kg/L
Crack Bridging Ability ( <i>method A</i> )	EN 1062-7	Class A3
Dust-free time		30 - 60 minutes*
Waiting time between the first and second coat		3 hours*
Operating temperature		-30°C - +90°C

\* Measurements have been recorded at a temperature of 23 °C and with 50% moisture. Declared data may vary depending on the thickness of the applied product and on the specific conditions of the construction site: temperature, humidity, ventilation, and absorbcency of surfaces.

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#### Technical data:

PERFORMANCE PROPERTIES - EN 1504-2 SURFACE PROTECTION SYSTEMS FOR CONCRETE (C COATINGS – PRINCIPLES: PI-MC-IR)		
Permeability to CO <sub>2</sub>	EN 1062-6	S <sub>D</sub> > 50 m
Water vapour permeability	EN ISO 7783	Class I (S <sub>D</sub> < 5 m)
Liquid water permeability	EN 1062-3	w < 0.1 kg/m <sup>2</sup> ·h <sup>0.5</sup>
Tensile bond strength	EN 1542	≥ 1 N/mm <sup>2</sup>
Reaction to fire	EN 13501-1	E



The advice and technical information provided represent HA ITALIA S.p.A.'s best knowledge of product properties and use. Considering the different situations of use of the products and factors beyond our control (media, working conditions, failure to comply with instructions), we cannot be held responsible for the results obtained. Before using the product, anyone who intends to make use of it is required to determine whether it is suitable for the intended use and assumes full liability for whatever may arise from its use.

**HA Italia disclaims any and all liability arising from failure to observe the warnings mentioned in this data sheet and failure to comply with the requirements set out in the safety data sheet.**

Data sheet no.: REV01 dated 01.01.2023