

DIMAPCHEM ANTI CARBONATION CLEAR

AQUEOUS BASED PROTECTIVE, DECORATIVE, ANTI-CARBONATION

is an anti-carbonation protective coating for exposed concrete and resistant to chloride penetration with good permeability to water vapor diffusion. The elastometric nature of ensures good crack bridging properties

BENEFITS

- Dramatic reduction in chloride and water absorption
- Comprehensive protection against frost / road salt attack
- Optimum resistance to alkalis
- Good depth of penetration
- Provides good adhesion for paints
- Can be applied without loss of material
- Allows to breathe the surface.
- Reduces sulphate attacks.
- Long-life, Lasts for more than 10 years
- Solvent less,
- Excellent weathering resistance
- Low volatility

PRODUCT:

DIMAPCHEM AC CLEAR is an aqueous, creamy, silane-based protective, decorative, anti-carbonation coating. It is a high quality specialty product for impregnating reinforced concrete..

USES:

DIMAPCHEM AC CLEAR is recommended particularly for impregnating and priming concrete and reinforced concrete used in building bridges, roads and buildings. Brushes, lambskin rollers or spatulas may be used for smaller areas.

Where new and existing concrete and masonry structures require protection from carbon dioxide, sulphur dioxide, oxides of nitrogen, chlorides, sulphates and UV radiation. Examples: car parks, commercial and industrial buildings, bridges, subways, beach resorts, high rise flats, etc.

DESCRIPTION:

DIMAPCHEM AC CLEAR is a unique impregnating agent due to thixotropic having an outstanding ability to impregnate high- quality concrete and reinforced concrete.

DIMPCEM AC CLEAR can be applied in just one coat of the desired thickness (at the most, two coats). The silane active ingredient penetrates the substrate within 30 minutes to several hours where the exact time depends on the porosity and quality of the

concrete. On reaction with the substrate, it releases ethanol and is converted into a polymeric silicone resin. A creamy layer forms initially, but then disappears completely. As the active ingredient is the same as in conventional liquid impregnating agents, impregnation with

DIMAPCHEM AC CLEAR does not clog the pores or capillaries, nor does it affect its ability to "breathe". **DIMAPCHEM AC CLEAR** is designed to penetrate deeply into concrete so as to afford optimum protection against absorption of water and pollutants as well as freeze / thaw cycles. concrete. On reaction with the substrate, it releases ethanol and is converted into a polymeric silicone resin. A creamy layer forms initially, but then disappears completely. As the active ingredient is the same as in conventional liquid impregnating agents, impregnation with **DIMAPCHEM AC CLEAR** does not clog the pores or capillaries, nor does it affect its ability to "breathe".

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Appearance semi gloss

Weight by volume 1.33 kg/l

Viscosity (brookshield 95 cP @ 0.6 RPM viscometer)

on spindle 93

pH value 9.2

Solid content 60%

The values stated are based on internal laboratory tests, therefore they are subject to normal manufacturing tolerances.

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DIMAPCHEM	RESULTS	TESTS
Water vapor transmission	0.52g/m ² /day	ASTM E 96-95
Pull off strength	2.8 N/mm ²	ASTM D 4541
Carbon dioxide penetration resistance	NIL	NT BUILD 372:1991-02
Chloride diffusion coefficient	2.2x10 ⁻¹³ m ² /sec	NT BUILD 492 approved 1999-11
Water absorption	1.7%	BS 1881 P122:1983
Reduction in chloride ion penetration (RCP)	97%	ASTMC 1202-08
Crack bridging capacity	1.7mm	ASTM C1305-00
Tensile strength	4 MPa	ASTM D 412-98a
Elongation at break	225%	ASTM D 412-98a

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