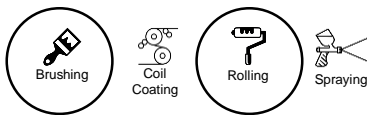


BELMIX ACC *Anti-Carbonation Coating*



Product Description

BELMIX ACC is formulated to confer long term protective and aesthetic properties to concrete and masonry surfaces that require protection from water, carbon dioxide, sulphur dioxide, oxides of nitrogen, chlorides, sulphates and UV radiation. The micro-porous structure of the coating acts as a barrier to the ingress of chlorides, carbon dioxide and other acid gases, but allows the passage of water vapor from the substrate. The elastomeric nature of BELMIX ACC ensures good crack bridging properties, in case of structural movement.

Area of Applications : Buildings / Structures under coastal/ Agressive Environment, Bridges etc.,

Drying	■ ■ ■ ■ ■	Abrasion Resistance	■ ■ ■ ■ ■ □
Adhesion	■ ■ ■ ■ ■	Corrosion Protection	■ ■ ■ ■ ■ ■
Chemical Resistance	■ ■ ■ ■ □	Electrical Properties	■ ■ ■ ■ ■ ■
Weather Resistance	■ ■ ■ ■ □	Value for Money	■ ■ ■ ■ ■ ■
Water Resistance	■ ■ ■ ■ ■	Variety of Colors	■ ■ ■ □ □

Special Properties

- Single pack and easy to apply
- Elastic nature with crack bridging properties
- Very good chemical and weather resistant system
- Better cleanability
- Excellent UV and weathering resistance
- Highly resistant to freeze/thaw cycles
- Provides excellent breathability to the substrate
- Water based and non-toxic
- Optimum balance of cost, compliances and performance
- Affordable performance and durability
- Range of colors available (RAL standards)

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High-performance Anti-Carbonation Coatings

Technical Data

Binder	Acrylic based co-polymer
Gloss @ 60° (Gloss ASTM D523)	From Matt to Semi-Glossy
Colour	RAL standards
Substrate	Concrete and masonry surfaces. The substrate must be dry, clean and free from contaminants such as oil, grease, moss, algae, dust, scales and any existing loose, flaking paintwork.
Thinner	Water dilutable
Storage	6 Months (Unopened Packaging)
Wet Film Thickness Dry Film Thickness	180 - 200 µm per coat 90 - 100 µm per coat (Total 200 µm)
Curing (depending on ventilation)	Touch dry: 1-3 hours Through dry: 3-16 hours
Over-coating interval	16 hours minimum
Pull-off Adhesion on concrete(Mpa)	1.52 ASTM D4541-95
Rapid chloride Permeability Test	Controlled concrete 432.0 Coulombs Coated 90.0 Coulombs ASTM C 1202-19
Tensile Strength	4.15 MPa @ 20°C ASTM D412-16
Solids Content	63% ASTM D2369-20

Carbon dioxide Diffusion Co-efficient	965,000 equivalent air thickness, R: >200m @ 300 microns dft.
Water vapour transmission rate	10 g/m ² /day
Depth of Water Penetration (at 5 Bar Pressure)	Nil (BSEN:12390(Part 8)-2006
Elongation at break	350% @ 20°C
Application Rate	3.5 - 5.5 m ² /Ltr/coat (2 coats recommended)
Application: Obtain the desired level of roughness either by sand blasting, according to IS specification 1477-1977 (part-1) or metallographically/manually. Remove dust and all other foreign particles, and let dry. Concrete surfaces should be fully cured and free from laitance, mould release oils and curing compounds. Mould or algae should be removed with a standard fungicidal wash. High pressure water jetting may be necessary for heavily contaminated surfaces. Blow holes or pitting should be filled using a surfacer. Priming: Priming is recommended on porous substrates. Dilute BELMIX ACC with up to 20% by volume of clean water and apply by brush or roller at a nominal rate of 6- 8 m ² /Ltr and allow to dry	
Packing Size: 5 / 22 kg	

Safety Measures

BELMIX ACC contains solvents and is combustible, and must therefore be protected from heat and kept away from naked flames. Ensure that ventilation is adequate and do not inhale vapours. All regulations regarding work hygiene and operational measures must be observed.

Special Notes

The information contained in this technical data sheet is based on general technical standards and is meant for specialists. Any changes in the recommended operating procedures or specified environmental conditions may influence the results significantly. Our guarantee covers only the quality of the material delivered. We do not undertake any responsibility for the application. In case of doubt, we recommend contacting our Technical Service. Our products are under constant development. Therefore, please note date of issue of our technical data sheet and ask for latest edition.

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