BMA ANTI-CARBONATION PAINT

Code: BMA-ACP

Color: Clear – could be tinted

PROPERTIES

An acrylic paint designed with a micro-porous structure in order to act as a barrier against chlorides, carbon dioxide and other acid gasses impregnation. Hence, BMA-ACP is suitable for moisture control and for increasing the concrete resistivity. It could be applied for decoration and protection of exterior surfaces like bridges, tunnels, roofs, industrial and commercial buildings.

RECOMMENDED USES

BMA Anti-Carbonation Paint is used for:

- ✓ Concrete and masonry structures
- ✓ Rendered surfaces
- ✓ Gypsum board
- ✓ Blockworks

PERFORMANCE BENEFITS

- ✓ Barrier against carbon dioxide and chlorides ingress
- ✓ Protection from destructive effect of UV light and weather conditions
- ✓ Moisture controller
- ✓ Impact and mechanical stresses resistant
- ✓ Good adhesion, hiding and covering power
- ✓ Non-toxic and non-yellowing paint

CHARACTERISTIC PHYSICO-CHEMICAL DATA

Tests	Norms	Results
Total solids, by weight	ASTM D2369	34%
Specific gravity (g/cm^3)	ASTM D1475	1.06
Viscosity, @25 ºC	ASTM D562	105 KU
Total volatile organic compound (VOC)	ASTM D3960	56.23 g/L

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Spreading rate at 35 µm DFT (1)	-	8 m²/L

1)DFT: Dry Film Thickness

APPLICATIONS GUIDE

Surface Preparation

Before applying BMA Anti-Carbonation Paint, all necessary pretreatment must be done. Surface should be clean, dry and free of all contaminants (oils, agents, dust, dirt, etc…) in order to avoid the risk of surface failing.
Concrete substrate must be well prepared in order to avoid any coating defects.
For new surface, ensure that concrete is completely cured at least 30 days.
For both fresh and old concrete, decontamination is required to remove any dust, oil, grease, laitance, fatty acids or any additional contaminants. This could be also done using 3% solution of ammonia in water.
Allow concrete substrate to dry then check the moisture and the pH of the substrate. Ensure that the pH is between 6 and 9 since alkalinity can affect and destroy paint adhesion. For the moisture content, make sure that it does not exceed 4% (by weight). Otherwise, the concrete surface is not a good candidate for painting.

Thinning

For the first layer, dilute BMA-ACP with 20% of clean water then decrease progressively the percentage of water in the second layer (10%).

Application

BMA Anti-Carbonation Paint should be applied in a well-ventilated area where the humidity does not exceed 85% and the temperature varies between 5°C and 35°C. The application must be done on a clean and dry surface could be already covered with any type of BMA Water Based Coating but free from any contaminations. Progressively, apply the thinned coats of BMA-ACP using a brush or roller but with providing 6 hours of drying period between layers.

Drying Time

Surface (Touch) Dry: 1 hour
Dry to over coat: 6 hours

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AVAILABLE PACKAGING

Gallon = 4 L; Pail = 17 L

SHELF LIFE

BMA Anti-Carbonation Paint should be stored in closed and undamaged containers in a well-ventilated area where the humidity does not exceed 85% and the temperature varies between 5°C and 35°C. The product must be protected from frost and from any heating or freezing source.

Under these conditions, the shelf life of BMA-APC will be 1 year. After this period the product is subjected to re-inspection. Proper handling is essential to maintain good quality.

HEALTH & SAFETY

Before using this product, please consult our Safety Data Sheet (SDS) for complete information on Hazards Identification, First-Aid and Fire-Fighting Measures, Accidental Release Measures, Handling and Storage, Exposure Control and Personal Protection, Stability and Reactivity, Toxicological Information, and Transport Information.

QUALITY ASSURANCE

BMA Commercial & Industrial s.a.l is a holder of the ISO 9001:2015 and ISO 45001:2018 certificates, which guarantees that all operations are conducted in compliance with International Standards.

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