

ARACO ANTI-CARBONATION

Elastomeric Anti-Carbonation Coating for Concrete and Masonry

Product Description

ARACO ANTI-CARBONATION is a highly elastomeric, micro-porous, waterproofing and anti-carbonation coating.

The micro-porous structure of ARACO ANTI-CARBONATION acts as a barrier to the ingress of Carbon dioxide, Chloride ions, Sulphates, Oxygen and others acid gases, but allows the passage of water vapor from the substrate.

The elastomeric nature of ARACO ANTI-CARBONATION ensures good cracks bridging properties in case of structural movement. ARACO ANTI-CARBONATION provide an ideal smooth long term protective, decorative coating for concrete and other masonry surfaces.

Uses

ARACO ANTI-CARBONATION is a single pack, acrylic polymer based anti-carbonation suitable for use in all types of structures that are not directly exposed to the sea such as:

- Protective and decorative coating
- External concrete surfaces
- Subways, car parking
- Bridge abutment
- Commercial and industrial complexes
- Multistory buildings and villas
- Precast elements
- Concrete cladding

Product Advantages

- Protective and decorative coating
- Excellent crack bridging properties
- Single pack, Ease of application
- Protect substrate from carbonation
- Allows the structure to "breathe"
- UV resistant
- Excellent weathering resistance
- Excellent waterproofing characteristics
- internal temperature of the building



Package: 20 kg liquid

Application Rate: 0.2-0.4 liter/ m^2

Surface Preparation

All surfaces should be clean, sound and uncontaminated prior to the application of **ARACO ANTI-CARBONATION**. Surfaces may be dampened but not wet with running water or condensation.

All loose particles or de-molding agents shall be removed by mechanical means. All holes and deep cracks should be repaired by the means of ARACO REPAIR SYSTEM.

Application

In order to obtain the protective properties of **ARACO ANTI-CARBONATION**, it is recommended to apply one coat of **ARACO ANTI-CARBONATION** Primer and two coats of **ARACO ANTI-CARBONATION** coat.

Priming

Primer is recommended on porous substrates. Dilute ARACO ANTI-CARBONATION by 20% of volume of clean water and apply it by brush, roller or airless spray at a nominal rate of 6-8 mm^2 / liter and allow it to dry.

Application

Apply **ARACO ANTI-CARBONATION** coating by brush, roller or airless spray at a nominal rate of 5 mm²/ liter and allow it to dry. The first coat can be diluted by up to 15% with clean water depending on the surface porosity. The second coat can be applied within two hours depending on the ambient temperature at the same rate. This application should achieve the 200 microns dry film thickness necessary for anti-carbonation properties. In applications where cracks bridging properties are particularly important, a minimum of over 300 microns is recommended.

Technical Data

Crack bridging value	pass	ASTM C1305
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Tensile Strength	>8 N/mm ²	ASTM D412
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Elongation

At 23 °C	>550%	ASTM D412
At -25°C	>400%	

Tensile Set

After 300% elongation	<2.5%	ASTM D412
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Water Vapor transmission

Average	18.7g/m ² .day	ASTM E96
Adhesion		
Concrete Average Value	>2.4Mpa	ASTM D4541

Product Data

Appearance	Eggs shell
color	White , grey and can be available in different colors
Density	1.25±0.05
Solid Content	56 % by volume
Touch Dry	1-3 hours depending on the ventilation
Over coating	2h @35°C / 4h @25°C
Storage condition	Store in a dry area between 5°C and 30°C. Protect from direct sunlight
Shelf Life	6 months minimum from production date if stored properly in original unopened packaging.

Safety Instructions

The product may cause skin irritation. Wear gloves and goggles and apply barrier cream to your hands. In contact with eyes or mucous membrane. flush immediately with plenty of warm water and seek medical attention without delay.

Legal Notes

The information, recommendations, and application are based on ARACO current knowledge and experience of the products when properly stored, handled, and applied under normal conditions. ARACO products are guaranteed against defective materials and manufacture and sold subject to standard conditions. Users should always refer to the most recent technical data sheet for the product concerned, copies of which will be supplied on request.

More from ARACO

A wide range of construction chemical products is manufactured by ARACO which include:

- Premixed mortar
- Tile adhesives & Grout
- Concrete Repair
- Flooring systems
- Protective Coating
- Waterproofing
- Bonding Agents
- Concrete Admixtures
- Surface Treatments
- Grout & Anchors
- Sealants
- Sports Flooring