



# 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:

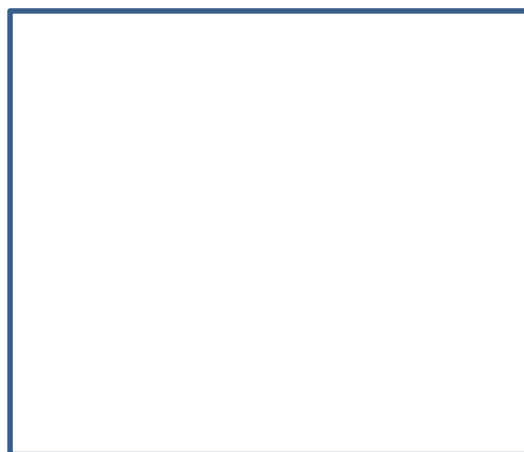
- Protective and decorative coating
- External concrete surfaces
- Subways, car parking
- Bridge abutment
- Commercial and industrial complexes
- Multistory buildings and villas
- Precast elements
- Concrete cladding

### 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

### Product Data

Color	White , grey and can be available in different colors
Appearance	Eggs shell
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.



### ARACO ANTI CARBONATION

Package	20 kg
Application Rate	0.2-0.4 liter/ m <sup>2</sup>

### Surface Preparation

All surfaces should be clean, sound and uncontaminated prior to the application of **ARACO ANTI-CARBONATION**. Surfaces may be damped 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 m<sup>2</sup>/ liter and allow it to dry.

### Application

Apply **ARACO ANTI-CARBONATION** coating by brush, roller or airless spray at a nominal rate of 5 m<sup>2</sup>/ 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.

ARACO FOR ADMIXTURES & CONSTRUCTION MATERIALS S.a.l.

Lebanon, Beirut: Fax: +961 8 512413/ Tel: +961 1 562510  
Email: [aacm@araco-group.net](mailto:aacm@araco-group.net) / MOB: +961 3 104539



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TECHNICAL DATA	Results	Standard
Tensile strength at break		
Average value	>8 N/mm <sup>2</sup>	ASTM D412
Elongation		
At 23 °C	>550%	ASTM D412
At -25°C	>400%	
Cracking bridging		
Value	pass	ASTM C1305
Water Vapor transmission		
Average	18.7g/m <sup>2</sup> .day	ASTM E96
Adhesion Concrete		
Average Value	>2.4Mpa	ASTM D4541
Tensile Set		
After 300% elongation	<2.5%	ASTM D412

### Curing

**ARACO ANTI-CARBONATION** will be touch dry following 1-3 hours, and though dry after 2-16 hours. It is important to wait for a minimum of 12 hours before the application of another coat.

### Safety instructions

Product may cause skin irritation. Wear gloves and goggles and apply barrier cream to 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 - 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 are sold subject to its 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.

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