

ARACO ANTI-CARBONATION

Elastomeric Anti-Carbonation Coating for Concrete and Masonry

Product Description

ARACO ANTI-CARBONATION is a high quality, semi-fluid aqueous acrylic co-polymer dispersion. After drying, it gives a high-build, elastomeric, waterproof and protective coating. It is also used as a washable and decorative anti-carbonation coating of outstanding durability.

ARACO ANTI-CARBONATION is a single component emulsion containing inert pigments suitable for application by brush, airless spray or roller.

ARACO ANTI-CARBONATION prevents chloride ion ingress. And exceeds all the requirements of a coating that resists carbonation.

Applications

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: -

- External concrete surfaces of storage tank and masonry 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



Package: 20 kg liquid

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. All traces of oil, grease, chemical contaminants and extraneous Anti-Carbonation should be removed. Any traces of mold or algae must be removed and the area treated with a suitable anti-fungicide or bleach solution.

Primer

Primer is recommended on porous substrates. Dilute **ARACO ANTI-CARBONATION** by up to 30% of volume of clean water or use **ARACO ANTI-CARBONATION PRIMER** and apply it by brush, roller or airless spray at a nominal rate of 8 m²/L and allow it to dry. Apply **ARACO ANTI-CARBONATION** coating by brush, roller or airless at nominal rate for first coat 8-10 m²/L and for second coat 11-13 m²/L 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.

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.

Technical Data

Crack bridging capacity	>2.1 mm	ASTM C 1305:95
Tensile Strength	3.8 Mpa	ASTM D412-98a
Bond strength (Pull out Test)	>2.6 N/mm ²	ASTM D 4541
Reduction in chloride ion penetration	98 %	ASTM C1202
Water absorption	1.6%	BS 1881 P122:1983
Elongation at break	>215%	ASTM D415-98a
Water Vapor transmission	0.48g/m ² /day	ASTM E96-95
Chloride diffusion coefficient	7.33x10 ⁻¹⁵ m ² /sec	NT BUILD 492:1999-11
Carbon dioxide diffusion Coefficient	7.26*10 ⁻⁸ at 200 micron according to BS EN 1062-6:2002	
Solid content	56 % by volume	
Touch dry time	1-3 hours depending on the ventilation	
Over coating time	2h @35 C° 4h @25 C°	

Product Data

Composition	Acrylate dispersion
color	White , grey and can be available in different colors
Storage condition	Store under cover, out of direct sunlight and protect from extremes of temperature. In tropical climates, the product must be stored in an air-conditioned environment.
Shelf Life	12 months minimum from production date if stored properly in original an opened 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