Paco systems
SPECIALIST PAINTS FOR INDUSTRY

Anti-Carb Coating
(Anti Carbonation Coating)

Description
Anti-Carb has been formulated to confer long term protective and decorative properties to concrete and masonry surfaces.
The micro-porous structure of the coating acts as a barrier to the ingress of Chlorides and Carbon Dioxide and other acid gases, but allows the passage of water vapour from the substrate.
The elastometric nature of Anti-Carb ensures good crack bridging properties, in case of structural movement.

Typical Uses
Where new and existing concrete and masonry structures require protection from Water, Carbon Dioxide, Sulphur Dioxide, Oxides of Nitrogen, Chlorides, Sulphates and UV radiation.
Examples: car parks, commercial and industrial buildings, bridges, subways, high rise flats, etc.

Advantages
* Easy to clean
* Excellent weathering resistance
* Single pack and easy to apply
* Protects substrates form Carbonation
* Highly resistant to freeze/thaw cycling
* Elastic nature with crack bridging properties
* Allows structure to "breathe"
* Water based and non-toxic
* Range of colours available (to BS4800 or RAL standards)

Typical Properties

Colours:	white, light grey, magnolia (other colours on request)
Finish:	Semi-matt
Application rate:	4-6 Sq.m./litre/coat (two coats recommended)
Volume Solids:	56%
Wet film thickness:	typically,180 microns per coat (equivalent dry film thickness =100 microns per coat)
Touch dry:	1 /2 hour to 3 hours
Through dry:	2-16 hours
Overcoating interval:	16 hours minimum
Tensile strength:	3.7 MPa @ r 20C
Carbon Dioxide Diffusion Coefficient:	965,000
Equivalent Air thickness, R:	>200 m
Water Vapour Transmission Rate:	12g/Sq.m./day
Service Temperatures:	-30C to +80C
Elongation at break:	350% @ 20C

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Paints and Coatings for Industry

PROCEDURE

1) Surface Preparation.

Substrates shall be clean, sound, and free from contaminants such as oil, grease, moss, algae, dust and any existing loose or flaking paintwork.
Concrete surfaces shall also be fully cured and free from laitance, mould release oils and curing compounds.
Mould or algae shall be removed with a proprietary fungicidal wash.
High pressure water jetting may be deemed necessary for heavily contaminated surfaces.
Blow holes or pitting on the surface shall be filled using either EPA or a Surfacer

2) Priming is recommended on porous substrates. Dilute Anti-Carb with up to 20% by volume of clean water, and apply by brush, roller or airless spray at a nominal rate of 6 to 8 Sq.m./litre. Allow to dry prior to application of two full coats of Anti-Carb (undiluted).

3 Application

Apply Anti-Carb coating by brush, roller or airless spray, at a nominal rate of 5 Sq.m./litre and allow to dry. A second coat may be subsequently applied at the same rate.

NOTE: This should achieve the 200 microns dry film thickness necessary for anti-carbonation properties. In applications where crack bridging properties are particularly important, a minimum d.f.t. of over 300 microns is recommended.

4) Equipment Cleaning

Clean all equipment, immediately after use, with water or a mixture of water and Toolclean.

5) Drying/Curing

Anti-Carb will be touch dry following 1 /2 to 3 hours drying time and through dry after 2-16 hours (dependent on ventilation)

6) Packaging

10 litre pails.

7) Coverage

Anti-Carb may be applied at a nominal rate of 5 Sq.m./litre/coat. The recommended two coat treatment will provide an overall d.f.t. of 200 microns, which is the minimum for long term anti-carbonation properties.

8) Storage and Shelf Life

Store in dry conditions at temperatures between 10C and 25C, and out of direct sunlight. Protect from frost.

Anti-Carb has a minimum shelf life of 18 months when stored in original, unopened containers in accordance with the manufacturers instructions.

9) Limitations

a) Anti-Carb should not be applied at temperatures below 3C or if there is a risk of frost.
b) Compatibility testing of Anti-Carb with existing paint or coatings must be carried out prior to overcoating.

10) Health & Safety

Anti-Carb is non-toxic both during and after use. Any splashes should be removed from the skin using soap and water. Please refer to the Material Safety Data Sheet for additional information.