Anti Carbonation Paint

Description

Protect concrete substrates from Carbon Dioxide Deterioration with Anti-Carbonation Paint Coating. Weathering resistant, elastomeric and UV stable, Anti-Carbonation Paint Coating prevents the ingress of Chlorides, Carbon Dioxide and Acid Gases to substrates such as concrete, brick, and natural stone. 100% breathable and gap bridging this anti-Carb coating can be used on all clean concrete and masonry surfaces such as car parks, bridges, subways, high rise flats and roofing. Simple to apply, available in white and cream, with other colours available on request, Anti-Carbonation Paint is made to the highest of British standards.

Advantages

- Easy to clean
- Excellent UV and weathering resistance
- Single pack and easy to apply
- Protects substrates from carbonation
- Highly resistant to freeze/thaw cycling
- Elastic nature with crack bridging properties
- Allows structure to 'breathe'
- Water based and non-toxic
- Resists Co2, Sulphates, UV, So2
- Repels damp & moisture ingress
- High-Performance Anti-Carb paint
- Water-based safe non-toxic finish
- Overall protection for your concrete
- Best quality finish and protection
- Compatible with easy-on anti-graffiti
- Single pack. Easy coating to apply

Typical Properties:

Colours: White or Light Grey (BS4800 or RAL colours are available on request)

Finish: Eggshell

Application rate: 3.5 - 5.5m² / litre / coat (2 coats recommended)

Wet Film Thickness: 180 microns per coat Equivalent dry film thickness: 100 microns per coat

Touch Dry: 1 to 3 hours (dependent on ventilation)

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 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 surfacer.

Priming

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 6-8m²/litre and allow to dry.

Application

Apply Anti-Carb coating by brush, roller or airless spray at a nominal rate of 5m²/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.

Equipment Cleaning

Clean equipment with water or a mixture of water and Toolclean prior to drying of the coating.

Curing

Anti-Carb will be touch dry following 1 - 3 hours, and through dry after 2-16 hours (dependent on ventilation).

Through dry: 2-16 hours

Over coating interval: 16 hours minimum

Tensile strength: 3.7 MPa @ 20°C

Water vapour transmission rate: 12g/m²/day

Carbon Dioxide Diffusion Coefficient: 965,000 Equivalent air thickness
R: >200m @ 300 microns dft.

Service temperatures: -30°C to + 80°C

Elongation at break: 350% @ 20°C

Packaging

Anti-Carb is supplied in 10L packs

Coverage

Anti-Carb may be applied at a nominal rate of 5m²/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.

Storage and Shelf Life

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

Anti-Carb has a minimum shelf life of 12 months when stored in original, unopened containers in accordance with manufacturer's instructions.

Limitations

Do not apply at temperatures of 3°C or less or if there is a risk of frost.
Compatibility testing of Anti-Carb with existing paint coatings must be carried out prior to over coating.

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