

Anti-Carbonation | Acrylic For Concrete

DESCRIPTION

Anti-Carbonation for concrete has been specially 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 vapor from the substrate. The elastometric nature of Anti-Carbonation ensures good crack bridging properties, in case of structural movement 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 from Carbonation
- Highly resistant to freeze/thaw cycling
- Elastic nature with crack bridging properties
- Allows structure to “breathe”
- Water based and non-toxic
- Range of colors available (BS4800 or RAL standards)

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 bond putty.

2) Priming

Dilute Anti-Carbonation with up to 50% 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 thick coat of Anti-Carbonation (undiluted).

3) Application

Apply Anti-Carbonation coating by brush, roller or airless spray, at a nominal rate of 3 Sq.m./litre and allow to dry.

4) Storage and shelf life

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

5) Packaging

17 liters pails.

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CHEMICAL SPECIFICATION

Code:	400AC
Color:	White or any color.
Finish:	Semi-matt
Coverage:	3-4 Sq.m./litre/coat (two coats recommended)
Volume solid:	56%
Wet film thickness:	typically, 180 microns per coat
<i>(Equivalent dry film thickness =100 microns per coat)</i>	
Touch dry:	½ hour to 3 hours
Through dry:	2-16 hours
Over-coating interval:	16 hours minimum
Tensile strength:	3.7 MPa @ r 20C
Service Temperatures:	- 30C to +80C
Elongation at break:	350% @ 20C
Carbon Dioxide Diffusion Coefficient:	965,000
Equivalent Air thickness: R:	>200 m
Water Vapor Transmission Rate:	12g/m/day

GENERAL SURFACE PREPARATION

All surfaces should be sound, clean, dry, and free of dirt, oil, grease, mildew, loosing and flaking paints as well as foreign substances. For new surfaces this paint is used as a primer. For previously painted surfaces the area to be treated should be clean so you must rinse and wash any oil or grease residues. Remove sanding dust. Remove also loose paint. Porous flat finishes should be soaked with this paint.

PRECAUTION AND SAFETY

- Keep this paint from freezing.
- Do not transfer contents to bottles or any other unlabeled containers.
- In case of spillage, absorb with inert material.
- If case of eye contact, rinse thoroughly with water for 15 minutes.
- In case of skin contact, wash area with soap and water.
- Do not take internally.
- Close container after each use.
- Keep out of reach of children.
- Store in dry conditions at temperatures between 10C and 25C, and out of direct sunlight.
- Protect from frost.