

# PC Shield AC



## High Performance Anti-Carbonation Coating for Exteriors

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### Product Overview

PC Shield AC is a high performance, water-based, acrylic coating used to protect masonry and concrete walls from reactive atmospheric gases such as CO<sub>2</sub>, SO<sub>2</sub>, NO<sub>x</sub>, and other harmful gases and free radical ions. PC Shield AC is available in a multitude of colors subjected to prior agreement.

### Areas of applications

PC Shield AC is recommended for protecting the structures externally in order to prevent access of reactive atmospheric gases, water-borne free radical ions and dust. It is not recommended for underwater structures and floors.

1. For all bridges, flyovers, water canals, etc.
2. All concrete and brick masonry structures.
3. Offices, commercial buildings and multi-residential buildings
4. Industrial buildings, chimneys, cooling towers, Overhead water tanks, etc.

### Properties

1. PC Shield AC is extremely resistant to CO<sub>2</sub> and SO<sub>2</sub> diffusion and free radical chloride ions i.e. it gives an anti-carbonation and anti-sulphate coating.
2. It is UV resistant and suitable for exposure. It is permeable to vapor but resistant to water Ingress and dust.
3. It adheres to the concrete substrate/surface excellently and is durable.

### Guidelines for Usage

**1. Surface preparation:** The concrete surface must be clean, dry and free of any contaminant or coating that may prevent proper adhesion of PC Shield AC to the surface. Organic materials, fungi/algae layers over the surface must be treated with proper fungicide or suitable sterilizing agents and should be removed. Pinholes, potholes and cracks wider than hairline must be treated with regular methods prior to the application of PC Shield AC. the substrate should be moist to 7% not damp.

**2. Priming:** The substrate/surface should be primed using proper acrylic based primer prior to the application. Allow the primer coat to dry for 2-3 hrs before applying PC Shield AC.

**3. Mixing:** PC Shield AC is a ready to use product. So just mix in a clean container for 5-10 mins for uniform composition (do not dilute) at a slow speed.

**4. Application:** Spray PC Shield AC using a heavy duty spray equipment capable of spraying ceilings texture and cementitious coatings with a orifice having dia between 0.6mm to 0.8mm. Follow "cross coat" techniques for applying PC Shield AC (at first horizontal pass followed by vertical pass). After applying the 1st coat, allow it to dry for 10-12 hrs prior to the application 2nd coat. Do not backroll during the application 2nd coat. For hand application use damped rollers or brushes which have been damped with clean water. Apply the two coats in any one direction only.

## Coverage area

The recommended application rate is 0.45kg/m<sup>2</sup>/coat. Each 25 kg of PC Shield AC will yield around 25-27 m<sup>2</sup> depending upon the texture of the surface.

## Packages available

PC Shield AC is packaged in 25 kg HDPE buckets.

## Storage and Shelf life

PC Shield AC has 12 months shelf life when stored in original, dry and unopened packs.

## Safety Measures

1. Clean tools and equipment with water before the material hardens.
2. Don't dilute or thin PC shield AC while mixing.
3. Don't apply over frosted or filled surfaces.
4. Use proper safety equipments while mixing e.g. use of safety coats, safety goggle, gloves etc.

For further information related to application and safety precautions, please contact Mcrete technical representative.

## Technical data

Aspect	Viscous dispersion
Density	1.30-1.40 g/cc
Volume of solids	58%
Application temperature	25°C
Setting time	45 min - 1hr
Chloride ion penetrability	Negligible
Water vapor transmissibility and weather resistance	
Pull off Bond strength	≥ 1.50 MPa or till concrete failure

For further clarifications Please contact on below address

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