Assess Build Chem Pvt. Ltd.
A World of Concrete Solutions

SS - ProtectoCon AC

Breathable, Crack-Bridging, Ultra-Violet Light Resistant, Waterproof, Anti-Carbonation Coating for Concrete and Cementitious Substrates, based on Advanced Elastic-Elastomeric Acrylic Polymers

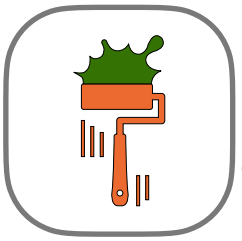
General

SS - ProtectoCon AC is an Elastic-Elastomeric Coating based on advanced acrylic polymer technology. The coating is extended with select mineral fillers, which in synergy with the acrylic polymers, provide the coating with extreme carbonation, ultraviolet light and water resistance while maintaining excellent crack-bridging characteristics and a low resistance to water-vapour diffusion, making the coating breathable. **SS - ProtectoCon AC** contains no solvents and is therefore, eco-friendly.

Due to a synergistic combination of properties, **SS - ProtectoCon AC** is best suited for protection of concrete from environmental effects of water, pollution, UV light and chlorides. It can be used in all non-water-submerged areas and for protection of Reinforced concrete and plasters. By virtue of its crack-bridging and protective properties, this material can be used to protect new structures or even distressed concrete structures showing hairline cracks and in repair strategies. Due to the combination of properties, the material is especially suited to coating of Bridge piers above the tidal line, and the complete superstructure and appurtenances. It is also especially suited for water tanks, buildings, stations, and many such above-ground RCC Structures. Meets the requirement for Anti-Carbonation Coatings from IRC SP:80 and the MORTH Orange Book. The coating is known to provide very long term protection, even in marine conditions

Product Features

- Solvent-free coating for Concrete and Plasters
- Both for exterior use and well-ventilated indoors
- Low VOC
- Elastic-Elastomeric coating with excellent crack-bridging
- High Resistance to Carbon-Dioxide Diffusion
- Low Resistance to Water Vapour Diffusion
- Waterproof
- UV Resistant for Long-Lasting Protection
- Resistant to environmental pollution and soot
- Reduces Biological growths, moss, fungus etc.
- Can be pigmented to required colours



Areas of Application

- Reinforced Cement Concrete
- Building Facades
- Cooling Towers and concrete chimneys
- External Plaster
- Water tanks (External)
- RCC Bridges
- Distressed / hairline cracked concrete
- Repaired cement-bound surfaces
- Not for Floors or driven on / walked on surfaces

Areas of Application

Specification Keywords	Acrylic Coating, Elastic, Elastomeric, Breathable, Crack-Bridging, Ultra-Violet (UV) Light Resistant, Waterproof, Anti-Carbonation Coating, Chloride Resistance, Bridge, RCC
Delivered As	White Paste, Colours on Request
Storage Instructions	In Original Packing. In a cool dry place.
Shelf Life	12 Months from date of Manufacture.
Post Use	Use Complete Packs, Dispose packaging according to local regulations.
Packing Size	40 kg

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SS - ProtectoCon AC

Hazards and Safety

Technical Data

Coverage	400 - 450 g/m² in 2 Coats, Depending on surfaces for 225 µm DFT
Recoatability	8 to 16 Hours, Depending on Ambient Temperatures
Sp. Gravity	1.40 ± 0.05, At Room Temperature
Solid Contents	70 ± 2 %
Adhesion	> 1.5 N/mm²
UV Resistance	No Change in Colour, After 400 Hours under Xenon-Arc Lights
Crack Bridging Capacity	2.5 mm
Water Permeability	Nil
CO_2 Diffusion	> 50 m, Equivalent Air Layer Thickness (S_d)
H_2O Diffusion	< 4m, Equivalent Air Layer Thickness (S_d)
VOC	Conforms to Table 1: 40 CFR 59 D, Ch. I, 7/1/12 Edition - Concrete Protective Coatings
Salt Spray Test	Passes, No Film Delamination or Blistering After 400 Hours
Primer	Use SS - ConGuard Primer @ 75-100 gms / m², prior to Coating

Instructions for Use

Surface temperature should be cool enough to allow painting. Follow substrate preparation rules for painting surfaces. The substrate must be clean, dry and free from all loose particles, old paint, dust, oil and other materials having a separating effect. The substrate should be of sound nature and adequate strength (pull off strength > 1.5 N/mm² is most suitable) for maximum protection. For Cracked surfaces, analyze the cracks, before coating. Repaired surfaces should gain sufficient strength prior to coating. **SS - ProtectoCon AC** is recommended to be applied after complete curing of concrete or plasters and is compatible with most polymer cement mortar substrates.

Surfaces can be moist but not saturated with water. The product should be thoroughly mixed mechanically before Application. **SS - ProtectoCon AC** should be applied by brush or roller or by airless spray.

Fill up any imperfections in the substrate surface using a suitable concrete cosmetic mortar, putty or by grinding and polishing. Apply **SS - ConGuard Primer** at approx. 75 to 100 g / m² using brush or roller on the prepared surface. When touch-dry apply first coat of **SS - ProtectoCon AC**. Wait 8 to 16 hours or until touch dry and apply second coat of **SS - ProtectoCon AC**. Protect from rain for at least 48 hours after application.

Safety and Precautions

Corresponding safety rules are to be followed. Contact us for other applications of this material system for the protection of your structures. It can cause damage to skin and eyes. Wear protective gloves and goggles and take the usual precautions for handling chemicals while using. If inhaled, move immediately to fresh air. In case of skin or eye contact, flush immediately with water for 15 minutes. Clean up promptly after job is complete. Clean equipment with water and allow to dry in a well-ventilated area. Allow rags etc. to dry in a well-ventilated area out of the reach of children and pets. Local, state and federal regulations should be consulted for proper disposal procedures.