



## Breathable, Crack-Bridging, UV Resistant, Waterproof, Low VOC Anti-Carbonation Coating for Concrete, based on Advanced Elastic-Elastomeric Acrylic Polymers

### General

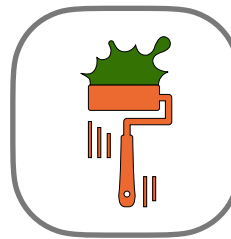
**SS - ProtectoCon WB** is an Elastic-Elastomeric Coating based on advanced acrylic polymer technology. The coating is extended with select mineral fillers, which in synergy with the acrylic polymers, provide the coating with extreme carbonation, ultraviolet light and water resistance while maintaining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

Due to a synergistic combination of properties, **SS - ProtectoCon WB** 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.

### Product Features

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



Concrete  
Protection



### Areas of Application

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



### Areas of Application

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

**Assess Build Chem Private Limited**



## Hazards and Safety



## Technical Data

<b>Coverage</b>	Uncoloured : 150 - 180 g/m <sup>2</sup> Coloured : 200 - 250 g/m <sup>2</sup>
<b>Recoatibility</b>	8 to 16 Hours, Depending on Ambient Temperatures
<b>Sp. Gravity</b>	1.30 to 1.40
<b>Solid Contents</b>	50 - 55 % - Transparent to Colour
<b>Adhesion</b>	> 1.5 N/mm <sup>2</sup>
<b>UV Resistance</b>	No Change in Colour, After 400 Hours under Xenon-Arc Lights
<b>Water Permeability</b>	Nil
<b>CO<sub>2</sub> Diffusion</b>	> 50 m, Equivalent Air Layer Thickness
<b>H<sub>2</sub>O Diffusion</b>	< 4m, Equivalent Air Layer Thickness
<b>VOC</b>	Within Limits
<b>Salt Spray Test</b>	Passes, No Film Delamination or Blistering After 400 Hours
<b>Primer</b>	Use <b>SS - ConGuard Primer</b> @ 75-100 gms / m <sup>2</sup> , 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/mm<sup>2</sup> 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 WB** 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 WB** should be applied by brush or roller or by airless spray method.

Fill up any imperfections in the substrate surface using a suitable concrete cosmetic mortar **SS - StructoRep CR**, putty or by grinding and polishing. Apply **SS - ConGuard Primer** at approx. 75 to 100 g / m<sup>2</sup> using brush or roller on the prepared surface. When touch-dry apply first Transparent / White coat of **SS - ProtectoCon WB**. Wait 8 to 16 hours or until touch dry and apply second Coloured coat of **SS - ProtectoCon WB**. 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.