

# CWC®SMARTGUARD-P

## Silane-Siloxane modified Penetrating Primer for Concrete and Masonry Structures

### Description

**CWC®SMARTGUARD-P** is high performance Silane-siloxane modified acrylic polymer based penetrating primer/ sealer for anti-carbonation protective (**CWC®SMARTGUARD**) and other water-based coating system. In addition to UV resistance acrylic polymer, **CWC®SMARTGUARD-P** is designed with nano size polymer particles which can easily penetrate deeper into the substrate surface and repel inside water, if any to keep outer substrate surface dry. This enhances durability of topcoat. **CWC®SMARTGUARD-P** is also used as an excellent sealer coat for concrete and masonry to protect the structure from efflorescence.

### Indicative Characteristics

Appearance of dry film	Translucent
Specific Gravity	1.03±0.02
Drying time at 30°C, RH 65%	4 hours
Pull off Adhesion at 14 days, ASTM D 541, MPa	>1.5 (concrete failure)
Coverage (Theoretical)	6-8 m <sup>2</sup> /kg/coat (depending on surface finish)
Full Cure, at 30°C, 60% RH	5 days
Fungi Resistance, ASTM G21	Passes test

### Domains of Application

Used as an high performance primer for water based anti-carbonation and waterproof polymer coating for bridge deck, under pass, building walls, roofs, etc. Can be used as sealer coat for industrial floors, interior/exterior walls. When used as primer it enhances performance of high end interior/exterior decorative paint.

### Method of Application

#### Surface Preparation

Prior to application of **CWC®SMARTGUARD-P**, all surfaces must be prepared properly to avoid failure. The surface shall be cleaned to remove all dust, foreign materials/loose particles or any deposits of contaminants, which could affect the bond between the original substrate and the **CWC®SMARTGUARD-P** system. This can be done by scarifying, grinding, water blasting, sand blasting, acid washing or any other approved method. Rectify depression / honey-comb (if any) in the surface, use **CWC®SMARTCRETE** mortar (1part **CWC®SMARTCRETE**, 2 part cement, 4 part medium washed sand) and leave it for at least 24 hours before application of **CWC®SMARTGUARD-P**.

#### Treatment of Cracks

If there is any crack up to 2 mm, clean those cracks with vacuum cleaner to open cracks, and fill the opened groove with polymer mortar.

### Method of Application

Though **CWC®SMARTGUARD-P** adheres strongly with most of building materials like cement concrete, mortar, bricks, woods etc, use of **CWC®SMARTGUARD-P** provide better performance of final coating system. Stir well the Primer and apply it with soft nylon brush or roller over the dry surface. Generally, one coat is sufficient. If the surface is too porous apply two coats of primer. Time gap between two coats should be 2-4 hours. Being a water-based product, it can be applied on slightly damp surface but for optimum performance apply primer on dry surface liberally.

### Application of Topcoat

After the application primer coat allow it to reach touch dry for 2-4 hours before application of topcoat. For more and appropriate application always refer individual Technical Data Sheet of product and or an connect with **CWC** Technical team.

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#### Application of CWC®SMARTGUARD

After the application primer coat allow it to reach touch dry for 2-4 hours. Stir **CWC®SMARTGUARD** to a homogeneous smooth consistency and apply it horizontally with soft nylon brush, roller or spray (Airless sprayer – GRACO SMART CONTROL 2.0) to a thickness of 150-200 microns (WFT) in single coat. Allow it to dry for approx. 2-4 hours. When the applied coat becomes sufficiently dry apply second coat vertically. Minimum Two coats are sufficient for general anti-carbonation (150 -300microns DFT) but for severe conditions, three or more coats are required to achieve desired results.

#### Advantages

- Easy application; can be applied by brush or roller at site.
- Excellent resistance to carbon dioxide, acid rain, and alkali solution.
- Excellent resistance to water
- Green product -No VOC (Volatile Organic Compound).
- Very good adhesion with concrete and masonry.

#### Shelf Life & Storage

12 months from the date of manufacturing when stored in unopened, original sealed and dry condition at a temperature range from +5°C to 40°C

#### Packing

20 kg Plastic Bucket

#### Precautions

Reinforcement rods and other sharp materials should not be dragged over the **CWC®SMARTGUARD-P** membrane, as this can puncture the same. **CWC®SMARTGUARD-P** shall always be used WITHOUT dilution. There should not be any rain during and after application of final coating for at least 6-8 hours Not suitable for continuous immersion like basements, water tanks/reservoirs and any other liquid storage tanks.

#### Safety

- Wear hand gloves, safety shoes and safety goggles while using and handling the product.
- In case eyes or mouth are affected wash with plenty of clean water and seek medical treatment immediately.

Before use, refer to the Material Safety Data Sheet. The MSDS is available on [www.cwcchemicals.com](http://www.cwcchemicals.com)

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