



CWC®SMARTACRYLIC PRIMER

Water Based Penetrating Primer

Description

CWC®SMARTACRYLIC PRIMER is a general purpose single component primer for elastomeric membrane forming material. It is carefully formulated using some selective polymers to give a continuous base-coating for products like **CWC®SMARTACRYLIC-100 / CWC®SMART-THERMOGUARD** membrane system. Its main function is to enhance the bonding between the substrate to the membrane, as well as it acts as a general protective coating that protects concrete masonry & metal structures from corrosive soil salts and ingress of subsurface water. It form a seamless protective and waterproof membrane after drying

Indicative Characteristics

Form	Low viscous liquid
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)	4-6 m ² /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/protective coating.**

Method of Application

Surface Preparation

Prior to application of **CWC®SMARTACRYLIC PRIMER**, 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 **PRIMER**.

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**, 2part cement, 4 part medium washed sand) and leave it for at least 24 hours before application of **PRIMER**

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 cement -sand polymer mortar.

Method of Application

Though **CWC®SMARTACRYLIC-100** adheres strongly with most of building materials like cement concrete, mortar, bricks, woods etc, use of **CWC®SMARTACRYLIC PRIMER** 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 Top-Coat

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



Concrete Works
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Application of CWC®SMARTACRYLIC-100

After the application primer coat allow it to reach touch dry for 2-4 hours. Stir **CWC®SMARTACRYLIC-100** to a homogeneous smooth consistency and apply it horizontally with soft nylon brush, roller or squeeze to a thickness of 300-500 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 waterproofing 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 un-opened, 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 **primed surface**, as this can puncture the same. **CWC®SMARTACRYLIC PRIMER** 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