

CWC®SMART ACRYLIC 100

Acrylic Polymer Based Elastomeric Waterproof Protective Heavy-Duty Coating

Description

CWC®SMART ACRYLIC 100 is acrylic polymer based elastomeric, waterproofing protective coating system. In addition to UV resistance acrylic polymer, **CWC®SMART ACRYLIC 100** is designed with alkali-acid resistance micro-fibre enhance tensile strength proprietary additives to resist post growth of algae and fungus and selected pigments reduces surface temperature up to 15°C when exposed to direct sun light. The thixotropic nature of the coating helps to apply thick film to get desired film thickness (1 to 1.5mm) with minimum no of coats.

Indicative Characteristics

Appearance of dry film	White, Grey. Other colour may be available on request
Specific Gravity	1.3±0.1
Drying time at 30°C, RH 65%	12 hours
Solid content, % (W/W)	>65
% Elongation at 14 days, ASTM D 412	250 (minimum)
Tensile strength at 14 days, MPa ASTM D 412	2 and 5(with fibre mesh reinforcement)
Hardness Shore A, ASTM D 2240	>40
QUV Resistance, ASTM G 154, 1000 hours	No crack, No color change
Pull off Adhesion at 14 days, ASTM D 4541, MPa	>1.5
Crack Bridging Capacity, EN 1062	2mm (No pinhole, no crack)
Full Cure, at 30°C, 60% RH	14 days
Fungi Resistance, ASTM D3273/3274	Passes test
Water Vapor Permeance, perm, ASTM D1653	13
Water Penetration at 5 Bar, DIN 1048 Part 5	Nil
Fire Resistance, EN ISO 11925-2	Passes test
SRI (Solar Reflectance Index) %, ASTM E 903 (CWC®SMART ACRYLIC 100 - WHITE)	>88 (0-100 scale, Black Paint 0, Pure TiO ₂ 100)
Dirt Pick-up Resistance, ASTM D 3719	Passes test
Coverage (Theoretical, WFT)	1.2-1.3kg /mm/m ²

Method of Application

Surface Preparation

Prior to application of **CWC®SMART ACRYLIC 100**, all surfaces must be prepared properly to avoid failure. The surface shall be cleaned to remove all dust, foreign material/loose particles or any deposit of contaminants, which could affect the bond between the original substrate and the **CWC®SMART ACRYLIC 100** system. This can be done by scarifying, grinding, water 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 parts medium washed sand) and leave it for at least 24 hours before application of **CWC®SMART ACRYLIC 100**.

Treatment of Cracks

If there is any crack up to 2 mm, clean those cracks with vacuum cleaner, to open cracks, pour **CWC®SMART ACRYLIC PRIMER** followed by a coat of **CWC®SMART ACRYLIC 100** along the crack line and leave it to dry for over night.

Application of Primer

Though **CWC®SMART ACRYLIC 100** adheres strongly with most of building materials like cement concrete, mortar, bricks, woods etc., use of **CWC®SMART ACRYLIC 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 2-3 hours.

Application of CWC®SMART ACRYLIC100

After the application primer coat allow it to reach touch dry for 2-3 hours. Stir **CWC®SMART ACRYLIC 100** to a homogeneous smooth consistency and apply it horizontally with soft nylon brush, roller or squeeze to thickness of 500-600 microns in single coat. Allow it to dry for approx. 4-5 hours. When the applied coat becomes sufficiently dry (no footprint observed) apply second coat vertically. Two coats are sufficient for general waterproofing (1mm thickness) but for severe conditions, three or more coats are required to achieve desired results.

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Domains of Application

- Waterproofing of old as well as new flat / slope concrete roof/ terrace/ podium
- Refurbishment of old concrete roof like brick bat coba, concrete screed/plaster, old acrylic coating, asphalt coating, Old APP/SBS membrane, etc.
- Waterproofing / protective coating of metal/ asbestos sheet roof.

Advantages

- Easy application ; can be applied by brush, roller and squeegee at site.
- Elastomeric in nature ; up to 2mm crack bridging capacity.
- UV Resistance- does not yellowing in sun rays exposure.
- Excellent resistance to carbon dioxide, acid rain, and alkali solution.
- Desired high Tensile strength can be achieved by providing single / multilayer glass fibre cloth.
- Excellent resistance to dirt pick up.
- No VOC (Volatile Organic Compound).

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 **CWC®SMART ACRYLIC 100** membrane, as this can puncture the same. **CWC®SMART ACRYLIC 100** shall always be used WITHOUT dilution.
- Do not apply coating thickness more than 600 microns in one go. For higher coating thickness apply multiple coat.
- There should not be any rain during and after application of final coating for at least 6-8 hours
- 24 Hours pond test shall be carried out after 72 hours of final coating application
- 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