

CWC®SMART LASTIC

Two Part Acrylic Polymer Based Elastomeric Waterproof Coating

Description

CWC®SMART LASTIC is a two component, high performance elastomeric acrylic polymer modified cementitious waterproofing protective coating system. It requires only the addition of clean water at site to produce an easily brushable coating.

Indicative Characteristics

Color of Pack-A (Liquid)	Milky White
Color of Pack-B (Powder)	Grey
Color of hardened coating	Cement like Grey
Workable time, minutes, 27°C, 70% RH	30 (approx.)
% Elongation at 14 days, ASTM D 638	100 (minimum)
Tensile strength at 14 days, N/mm ² , ASTM D 638	5 (minimum with fibre mesh)
Coverage	1.5-2kg/mm/m ²
Initial cure at 27°C, for pedestrian traffic	After 24hours
Full cure, days	7

Area of Application

- CWC®SMART LASTIC is used as a waterproofing treatment for roof, basements rafts against rising dampness, retaining structures, water bodies, reservoirs, balconies, bathrooms, sunken areas, fountains, dome structures, decks and terraces.
- Damp patches on walls, to seal joints through which there is possibility of water ingress and in any other area, where a quick solution for waterproofing and damp proofing is required.
- CWC®SMART LASTIC can be reinforced with fibre glass mats.
- To stop water leakage into underground structures (basements, tanks, sumps, pits etc.).
- Soil stabilization for foundations.

- Serving as sealer or liner in concrete structures.
- To prevent water ingress, oozing from ground.
- To serve as a water barrier in basements, gravel bedding as damp proof course.

Method of Application

Surface Preparation

Prior to application of CWC®SMART LASTIC, 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®SMART LASTIC 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 before application of CWC®SMART LASTIC.

Mixing Ratio

CWC®SMART-LASTIC	Pack
Powder	20 kg
Liquid	5 kg
Water	3 Lit.

CWC®SMART LASTIC LIQUID PART (polymer) is mixed with POWDER PART and WATER in the ratio of 1:4:0.6 by weight with a help of low speed (300-400 rpm) paddle mixer. The mix must be stirred thoroughly, until a lump-free smooth slurry is obtained. Stand for 4-5 minutes after mixing to release air from the mix.

Application

All concrete surfaces (flat and vertical /inclined) shall be thoroughly pre-wetted to saturated surface dry condition ; at the same time there should not be any standing water on the surface or it should not be too wet prior to application of CWC®SMART LASTIC system. Remix the content again with a spatula and start application by brush, roller or any other suitable tools on prepared surface. Minimum two coats are recommended. More number of coats can be provided depending on job requirements. First coat should be allowed to air dry for 5-6 hours. Where more tensile strength is required CWC®SMART LASTIC coating should be reinforced with non-woven fibre glass cloth.

Concrete Works Construction Chemicals Private Limited (CIN: U74999PN2021PTC199740)

Corp. Office: Office No. 70, Mahavir Center, Fourth Floor, Sector 17, Vashi, Navi Mumbai 400703.

Reg. Office: 1471 D.B. House, Office No. F-4, 4th Floor, Madhav Nagar Road-EWSD Sangli, 416416

Email: info@cwchemicals.com | Web.: www.cwchemicals.com



Curing

After application of **CWC®SMART LASTIC system**, initial air-drying shall be done for 3-6 hours. During this period, no water should be used for curing. If there is a chance of rain or hot (temperature above 40°C), windy atmospheric conditions within this period, protect the coating by covering with waterproof plastic sheet. After a maximum period of 6-8 hours after the final application, moist curing shall be done for the next 2-3 days, either by spraying water or by using wet burlap. During this period, the **CWC®SMART LASTIC** coating at no point of time should be left completely dry or submerged in water. After the moist curing the **CWC®SMART LASTIC** coating shall be allowed to air dry for 3 days before submersion in water.

Advantages

- Protects concrete against water penetration, chloride and carbonation
- Allows water vapour to escape from the structure
- Resistant to UV (Ultra - Violet) rays
- Increase frost and salt resistance
- Prevents peeling and blistering
- Safe for Potable water contact.
- Excellent bond with sound and prepared substrates
- Unaffected by chemical attacks ranging from mild acids and strong alkalis.
- Highly durable in continuous wet service condition.
- One time application, properties improve with age.
- Versatile product – can be used for waterproofing, bonding agent for old concrete to new concrete and repair mortar.

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

25 Kg (Part-A:5Kg and Part-B:20 kg kit)

Precautions

- Sharp materials and reinforcement rods should not be dragged over the **CWC®SMART LASTIC** membrane, as this can puncture the same.
- **CWC®SMART LASTIC** shall always be used in combination of Pack A and Pack B in recommended ratio for the indented purpose as mentioned above.

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

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