



CX RAINSEAL 02

Heavy Duty Reinforced Acrylic mastic Waterproofing Coating For Terrace

Description:

- **CX RAINSEAL 02** is a flexible, liquid applied, single component, ultra violet rays and weather resistant, acrylic waterproofing membrane for all types of exposed roof slabs(new and old),terraces(sloped and flat),etc. It also helps to reflect heat from the surface thus producing a cooling effect and temperature reduction.
- **CX RAINSEAL 02** contains 'Hollow Glass Micro spheres that create stable voids within the coating film structure, which provide in low thermal conductivity. As a result the coating serves as insulation medium to resist heat transfer. The long lasting white colors reflect solar radiation that helps heat to back into the atmosphere which keeps the interior of a building cooler.
- This coating combines the benefits of waterproofing as well as heat reduction in a single product. Thus ensuring value for money for customers.

Uses :

- Suitable for all types of :
- Roof slabs(flat and sloped)
- RCC surfaces, asbestos, lime terraced roofs, brickbat coba,metal, etc after suitable surface preparation and repairs
- Sunshades
- All exposed areas
- Suitable for repairing existing bituminous membrane
- Can be used as exterior coating for PVC water tanks exposed to direct sunlight on roofs, balconies, etc. to keep the inside water temperature relatively cooler

Advantages :

- Single component, ready to use
- Algae and fungi resistant
- Reduces surface temperature by $5\pm 2^{\circ}$ C depending on nature of substrate (under standard controlled laboratory conditions)
- Highly Flexible
- Water vapour permeable
- Simple and fast application (even at detailing)
- Economical
- Excellent adhesion to concrete, brickwork, corrugated asbestos, asbestos cement sheets, brickbat coba, metal decks, etc.



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- High direct solar reflectance (R-value) and emissivity (E-value) indicates high degree of cooling effect
- High solar reflective index (SRI)
- Elastomeric
- Crack-bridging
- High resistance to chloride penetration, hence highly suitable for saline environment.
- Ultra violet rays and weather resistant
- Water based hence eco friendly
- Very low VOC and hence suitable for green buildings
- Can be stained with good quality stainer for light shades

Properties :

Solid Content	67% - 69%
Hardness (Shore A)(ASTM D 2240: 2002)	80
Tensile Strength (ASTM D 412 : 2002)	2.5 -2.7 N/mm ² 2.5 -2.7 N/mm ²
Elongation at Break (ASTM D 412 : 2002)	200%
UV Resistant (ASTM G 154 : 2000)	Excellent- No thermal degradation
Weathering (1000 hours)	No cracking, chalking and discoloration
Adhesion Strength(ASTM D 4541 : 2002)	0.9 N/mm ²
Water Vapour Transmission (ASTM E 96 : 2000)	19 g/m ² /day
Algae & Fungus Resistant (SS 345 : 1998)	No algae & fungus Growth
Crack Bridging AST M C 836: 1995 a)	No cracks up to 2 mm width
Rapid chloride permeability (ASTM C 1202 - 97)	Very low
Water permeability (BS EN 12390, part 8 :2000)	5-7 (Depth of penetration at 5 bar pressure)



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How to Application:

SURFACE PREPARATION:

- Prepare the surface thoroughly by cleaning, washing and removing dust, dirt, oil, grease and loose particles. In existing old terraces with brickbat coba or screeds, the substrate must be checked for its soundness.
- Damaged or hollow portions, sharp edges, etc. must be cut and removed till the mother slab. The slab should be recoated with slurry of CHEMAX Hydroseal WH and cement in 1:1 proportion.
- After drying, the brick bat coba in that portion should be reinstated by mixing CHEMAX Hydroseal WH in the base slurry as well as while doing the top coba. In other areas, where the coba is sound, the surface cracks must be filled with Crack-X or polymer-modified mortar in case cracks are wider than 5 mm.
- Cracks less than 2 mm, should be cleaned free of dust with a vacuum cleaner. Apply CHEMAX Primecoat in the crack and let it dry. Then pour **CX RAINSEAL 02** into these cracks and wait for it to dry.
- Ensure that the roof slope of a minimum of 1 in 100, is already provided. Bitumen based waterproofing treatments if existing, must be completely removed by mechanical scarification or by any other effective mechanical means.

APPLICATION:

- Dilute 2 parts of CHEMAX Primecoat with 1 one part of water. This dilution will cover 7 to 8 sq.mt. Allow it to dry for 6 to 8 hrs.
- Apply the first coat of **CX RAINSEAL 02** without any dilution at the rate of 2 m² per liter and allow it to dry before taking up the second and third coats, the rate of application being the same.
- In larger roofs, an open woven glass fiber mesh of 2.5 mm x 2.5 mm must be sandwiched between the first and second coat. While the 1st coat is still wet, place the fiber mesh on it.
- After the coat dries, start applying the 2nd coat of **CX RAINSEAL 02**. This improves the performance of the coating dramatically, to take care of all movements in cracks and cold joints in the substrate caused by variations of high and low temperatures.
- This reinforcement with fiber mesh shall be extended up to the drip mould over the angle fillets. Drying time between coats will be 6 to 8 hrs.
- Allow the system to air cure for 7 days minimum. A total thickness of 1 to 1.2 mm must be achieved when **CX RAINSEAL 02** is dry.



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MAINTENANCE & RECOATING OF CX RAINSEAL 02 :

- Over a period of time or some years, if **CX RAINSEAL 02** has developed cracks on exposure to weathering or extreme temperature variations, it is extremely easy to recoat over it again, with only one coat of application of **CX RAINSEAL 02**.
- Cracks if any, can be treated by placing a fiber mesh over a recoat, while it is still wet. After this dries, it would need an additional coat over the mesh to strengthen the area.
- In rest of the area where there are no cracks or damage on the surface, you can just go in for only one coat of **CX RAINSEAL 02**, after properly sanding the surface.

Precautions & Limitations

- All corners, gaps, joints, protrusions & outlets shall be coated with two extra coats.
- Do not apply during rains; substrate **MUST** be in SS D condition for application of primer.
- The product is designed only for foot traffic and not vehicular or movement of machinery or equipment.
- Do not apply **CX RAINSEAL 02** over expansion or moving joints
- To achieve the full proof waterproofing, parapet walls should be covered with CHEMAX RAINPROFF
- Never dilute **CX RAINSEAL 02** with water for ease of application

Coverage:

- 2-2.5 m² per liter @ single coat

Packing:

- 4 & 20 liter

Shelf Life & Storage :

- Shelf life is 12 months from the date of manufacturing in unopened condition.
- Store in a cool & dry place

Health & Safety Precautions:

- Skin Contact: Wash skin with soap & water. Remove contaminated clothes.
- On eye contact: Immediately splash eyes with plenty of water. Consult Physician if irritation persists.
- Ingestion: Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a Physician.