

CWC® SMARTHANE

Liquid Applied Polyurethane Based Elastomeric Protective / Waterproofing Coating

Description

CWC® SMARTHANE is a single component, bitumen / coal tar free high solid content liquid applied elastomeric polyurethane resin based cold applied coating system. Ideally suited for waterproofing of roofs, terraces, walls, basement conforming to ASTM C-836-95 & ASTM C – 898-95

Appearance of cured film	Black, Grey
Specific Gravity at 27°C	1.3 ± 0.1
Solid content, % (w/w)	>90
Touch dry at 27°C, 70% RH	4 - 6 hours
Application Temperature, °C	2 - 40
Elongation at break at 7 days, %, ASTM D412	>500
Tensile Strength, 7 days, N/mm², ASTM D 412	>2.2
Initial cure at 27°C, for pedestrian traffic	Within 24 hours
Crack Bridging Capacity, mm	3mm (Minimum)
Full cure, days	7
Theoretical Coverage (WFT)	1.3 kg/mm/m ²

Domains of Application

CWC® SMARTHANE is formulated to provide an easy, fast and sure system for waterproofing and protecting of new and old roofs, terraces, podiums, basement, swimming pool, planters, etc.

Method of Application

Surface Preparation

The surfaces to be applied should be dry, cleaned and free from oil and grease. Loose particles should be removed and damaged spots repaired first. Cracks should be filled up using **CWC® SMARTCRETE** cement MORTAR / epoxy mortar. **CWC® SMARTCOTE / SMARTHANE –PU/ SMARTHANE - BI** is recommended to improve the adherence of **CWC® SMARTHANE** Membrane on the substrate as a primer coat. However, **CWC® SMARTHANE** can be directly used over cleaned, dust free, sound concrete surface. Ensure the surface moisture is not more than 8% prior to application of coating / primer.

Mixing

Stir well before using of **CWC® SMARTHANE**.

Application

CWC® SMARTHANE can be applied by brush, roller. Alternately can be applied by a suitable spray gun or spread by a rubber squeegee. Additional layer must only be applied when previous layer become dry Recommended consumption of product should be followed. For multiple coats allow sufficient drying application (time gap between two coats : 8-12 hours) between coats. Wherever possible apply coats at right angles to each other to achieve even thickness of coating. Recommended film thickness should be 700 microns to 1000 microns for normal waterproofing using 1.0-1.3kg material. Higher thickness (1000 microns to 2000 microns) of coating is also used depending on site requirement.

Application Sequence

1. Surface preparation – Moisture Checking & grinding.
2. Application of Primer.
3. Application of **CWC® SMARTHANE** in two coats,
4. Protection of **CWC® SMARTHANE** coating and joint sealing.

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Advantages

- Can be applied by brush or roller
- On drying **CWC® SMARTHANE** forms a seamless protective and waterproof membrane.
- Being viscous it does not sag when applied on vertical surfaces. **CWC® SMARTHANE** has excellent adhesion to dry as well as primed surfaces of concrete, tile, plaster, bituminous roofing felt, asphalt coating and metal.
- Cured membranes of **CWC® SMARTHANE** remain highly flexible even at extremes temperature range (-25°C to 120°C).

Shelf Life & Storage

6 months from the date of manufacturing when stored in unopened, original sealed and dry condition at a temperature range from +2°C to 40°C

Packing

20 kg

Precautions

- Store the material at the 2° to 35°C temperature range in shaded cool place and keep it away from fire and any heated body. Clean all tools with MEK or any standard solvent before polymerization starts.
- Do not keep left over material in open condition.
- Do not apply the coating if the rain is expected within 24 hours.
- Do not apply coating thickness more than 500 microns in one go. If the total coating thickness is more than 500 microns apply in multiple layers.

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.cwcchemical.in

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