



## CWC® SMARTHANE-AR

### Liquid Applied Polyurethane Based Elastomeric Anti-Root Protective / Waterproofing Coating

#### Description

**CWC®SMARTHANE-AR** is two component, high solid content liquid applied elastomeric polyurethane resin based cold applied coating system with anti-root property. Ideally suited for waterproofing of green roofs, walls conforming to ASTM C-836-95 & ASTM C – 898-95

#### Indicative Characteristics

Appearance of cured film	Black
Specific Gravity at 27°C	1.3±0.1
Solid content, % (w/w)	>90
Mixing Ratio, Pack –A:B ( by wt.)	20:1
Touch dry at 27°C, 70% RH	4-6 hours
Application Temperature, °C	2-40
Elongation at break at 7 days, %	>500
Tensile Strength, 7 days, N/mm <sup>2</sup>	>2
Initial cure at 27°C, for pedestrian traffic	24 hours
Full cure, days	7
Coverage	1.2-1.3 kg/mm/m <sup>2</sup>

#### Domains of Application

**CWC® SMARTHANE - AR** is formulated to provide an easy, fast and sure system for waterproofing and protecting of New and old green roofs, terraces, podiums and planters.

#### 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. **CWC®SMARTHANE-P/ SMARTHANE-PU/ SMARTTHANE BI** is recommended to improve the adherence of **CWC® SMARTHANE- AR** Membrane on the substrate as a primer coat.

##### Mixing

A suitable power-driven mixer / stirrer is recommended for uniform mixing of **CWC®SMARTHANE-AR**. Stir the base and hardener separately. Add additive into the base and stir well till a uniform color is achieved. All packs are pre-weighed and ready for on-site mixing.

##### Application

**CWC®SMARTHANE-AR** can be applied by brush or roller. Alternately can be applied by a suitable spray gun or sprayed by a rubber squeegee. Additional layer must only be applied when previous layer have dried. The surface appearance can be improved by smoothening the last coat with a felt roller.

Recommended consumption of product should be followed. For multiple coats allow sufficient drying between coats. Wherever possible apply coats at right angles to each other to achieve even thickness of coating. Recommended film thickness should be 1mm to 1.5mm depending on site requirements.

##### Application Sequence

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



Concrete Works  
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### Advantages

- Can be applied by brush or roller.
- No root penetration through the hardened coating
- No harm on live plants
- On drying **CWC® SMARTHANE- AR** forms a seamless protective and waterproof membrane.
- Being viscous it does not sag when applied on vertical surfaces. **CWC® SMARTHANE- AR** has excellent adhesion to dry as well as primed surfaces of concrete, tile, plaster, well prepared metal surfaces.
- Cured membranes of **CWC® SMARTHANE- AR** 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

21 kg (Based -20 Kg, Additive- 1Kg)

### Precautions

- Store the material at the 5° to 40°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.
- Mix only sufficient materials for immediate requirements. Leave the mixed material to stand for 5-8 minutes to enable entrapped air, if any, to escape from the mix and then use as quickly as possible.

### 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](http://www.cwcchemicals.com)