



Concrete Works  
Construction Chemicals  
Private Limited



An ISO 9001 - 2015 Certified

# CWC® SMARTHANE UV(W)

## Single-component, polyurethane-based, flexible UV resistance, waterproofing membrane

### Description:

A single component, polyurethane-based, waterproofing membrane shall be SMARTHANE UV(W). It is a highly flexible crack-bridging material with a crack-bridging capacity of 2 mm.

### Uses:

- It is suitable for waterproofing any concrete structure.
- It can be used as a waterproofing membrane for roof slabs, balconies, terraces, planter boxes, wet areas, etc.

### Advantages:

- Crack bridging.
- Seamless coating.
- Highly flexible, good tensile strength.
- Ready to use, easy for application & repairable.
- Bitumen & Tar free.
- Excellent weathering properties.
- Root penetration resistance.
- It has very good adhesion to most construction materials, especially concrete.
- Remains elastic over a wide range of temperatures i.e. - 20°C to +80°C.

### Typical Properties:

<b>Appearance</b>	Grey/White liquid
<b>Density</b>	1.4 kg/lit
<b>Chemical basis</b>	Polyurethane
<b>Solid content</b>	70%
<b>Touch dry</b>	8 to 12 hours at 25°C
<b>Full cure</b>	7 days at 25°C
<b>Tensile strength, (ASTM D 638)</b>	> 1.5 MPa
<b>Adhesion, (AS 1580 408.2)</b>	4/5 (excellent)
<b>Hardness Shore A</b>	55
<b>Elongation (ASTM D 2240)</b>	> 270 %
<b>Application temperature</b>	+5°C to +35°C
<b>Temperature resistance</b>	-20°C to +80°C

### Coverage:

The approximate coverage rate is expected to be 1.2 liters persquare meter.



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### **Application procedure:**

#### **Surface preparation:**

The surface to be treated must be thoroughly cleaned. Remove all traces of formwork, release agent, grease, efflorescence, laitance, algae, or other contaminants that may prevent proper adhesion. Remove organic materials by scraping, brushing, or high-pressure water cleaning. Any weaknesses in the surface or defect should be repaired & filled with a suitable material. Any crack should be cleaned & filled with crack sealing material like SMARTLASTIC 200. Over any repaired crack apply a 150 mm wide thin layer (thickness not less than 0.6 mm) of SMARTHANE UV(W) & place lightweight fibrous mesh tape over the crack. Allow to dry for 8 hrs. & then apply a second 150 mm wide thin layer (0.6 mm) of SMARTHANE UV(W).

#### **Priming:**

The best practice is to always apply a primer. For good sound concrete surfaces, priming may not be required. Always test to see if the primer is required. Surfaces such as bitumen, old concrete, non-sound concrete, and metal should always be primed.

#### **Application:**

Recommended application temperature is +5° to +35°C. SMARTHANE UV(W) should be mixed for 3 minutes to achieve a homogenous mix using a slow-speed mixer (300-400rpm). Do not over mix as air entrapment is possible. SMARTHANE UV(W) can be applied by brush, roller, or airless spray equipment. Apply the first coat at approximately 0.6mm WFT. All additional coats required should also be applied at a maximum of 0.6 mm WFT.

The final recommended DFT is 1 mm including primer. Some applications may require greater thicknesses, please refer to our technical department for further advice. 8-12 hours should be left between coats. Any corners, 90-degree angles, pipe penetrations, etc. should be reinforced with a layer of lightweight fibrous mesh between the first 2 coats. Lightweight fibrous mesh may also be used to reinforce large areas. The physical properties of SMARTHANE UV(W) is unaffected by UV, however, in areas fully exposed to sunlight, chalking or slight discoloring may occur. The lightweight fibrous mesh recommended is approximately 60 GSM with a 2mm X 2mm mesh. Do not apply SMARTHANE UV(W) in rain or wet conditions.

#### **Packaging:**

SMARTHANE UV(W) is supplied in a 25 kg Bucket.

#### **Storage and Shelf life All:**

SMARTHANE UV(W) must be stored where temperatures do not drop below +5°C. Store under cover, out of direct sunlight and protect from extremes of temperature. Shelf life is 6 months when stored as above.

#### **Safety precautions:**

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin, and foodstuffs (which can also be tainted with vapor until product fully cured or dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. Keep away from children and animals. Reseal containers after use. Do not reuse containers for storage of consumable item.



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**Disclaimer:**

Whilst any information contained herein is true, accurate and represents our best knowledge and experience, no warranty is given or implied with any recommendations made by us, our representatives, or distributors, as the conditions of use and the competence of any labor involved in the application are beyond our control.

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