

# CWC®SMARTHANE PUR

## Spray Applied Fast setting Polyurea Based Elastomeric Protective / Waterproofing Coating

### Description

**CWC®SMARTHANE PUR** is a spray applied 2 component fast curing hybrid polyurea system for high performance waterproofing and protective system. **CWC®SMARTHANE PUR** is free from solvent with 100% solid with zero VOC. Part A consists of Isocyanate and Part B consists of Resin.

### Indicative Characteristics

Appearance of cured film	Grey or other color may also be available on request
Specific Gravity at 27°C	1.0-1.1
Solid content, % (w/w)	100
Mixing Ratio, by volume	1:1
Gel time, Sec	5-20
Tack free time	< 2 minutes
Handling	40-90 minutes
Elongation at break, %, ASTM D412	350±50
Tensile Strength, N/mm <sup>2</sup> , ASTM D 412	>15
Tear Resistance, N/mm, ASTM D 624C	>225 N/2.5mm
Taber Abrasion, ASTM D4060 (1kg, 1000 cycle)	< 18 mg, (CS 17 wheel)
Water Absorption	< 1%
Crack bridging Capacity	>2.5mm
Pull off adhesion, ASTM D 4541	2MPa (concrete failure)
Shore D	40±5
Service temperature	-40°C to +180 °C
Recommended thickness and Coverage	1.5-3mm; 1kg/mm/m <sup>2</sup>

### Domains of Application

High performance waterproofing of bridge deck, basement, waste water tank lining, roof, terrace, podium, truck bed lining, tunnel lining, swimming pool, Green roof, etc. Using suitable primer, **CWC®SMARTHANE PUR** can be applied on concrete, steel, aluminium, GRP Plastics, wood, SPF, etc.

### Method of Application

#### Surface Preparation - Concrete

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®SMARTHANE PU / CWC®SMART EPOCRETE PRIMER** is recommended to improve the adherence of **CWC®SMARTHANE PUR** membrane on the substrate as a primer coat. Ensure the surface moisture is not more than 6% and relative humidity is not more than 80% prior to application of primer and coating. Ensure that the substrate must be protected against rising damp where **CWC®SMARTHANE PUR** is to be applied.

#### Mixing

Stir well before using of **CWC®SMARTHANE PUR**. For pigmented system, add and mix pigment paste with Part B (Amine) with a help of barrel stirrer to uniform color.

#### Application

A suitable high pressure plural component spray equipment fitted with temperature controller is used to apply **CWC®SMARTHANE PUR**. Recoating should be carried out within 1-3 hours after the application of previous coat

#### Topcoat

**CWC®SMARTHANE PUR** is not a color stable system when exposed to UV rays. For color stable appearance in exposed condition use Color fast **CWC®SMARTHANE EPU** as top coat (0.1 - 0.2mm) over the **CWC®SMARTHANE PUR**.

(For more information and choice of top coat consult CWC Technical team)

**Concrete Works Construction Chemicals Private Limited (CIN: U74999PN2021PTC199740)**

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### Advantages

- Green product – 100% solid with zero VOC
- Being a fast setting system installation time is minimum
- Seamless system – no joints
- Very high mechanical properties
- Excellent crack bridging capacity.
- Resistant to most of chemicals and solvent
- Excellent low and high temperature flexibility
- Fully bonded with substrate
- No sagging on vertical and overhead application

### Shelf Life & Storage

6 months from the date of manufacturing when stored in unopened, original sealed and dry condition at a temperature range from +5°C to 35°C

### Packing

200 Lit. drum of each Resin and Hardener.

### Precautions

- Store the material at the 5° 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.
- Do not keep left over material in open condition.
- Do not apply the coating if the rain is expected within 3-4 hours.

### 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](http://www.cwcchemical.in)

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