

# CCI NEOTHANE PUR

## 2K Brush-applied UV Resistant Polyurea Waterproof Coating

### Description

CCI Neothane PUR is a two component, brushable, cold-applied, modified elastomeric polyurea coating for waterproofing and protection of concrete and metal surfaces. On application, it forms a UV resistant, blister-free impervious liquid membrane with a high resistance to moisture and water.

### Recommended Uses

- ✓ Waterproofing roof slabs and terraces, both concrete and metal
- ✓ Waterproofing old and new surfaces, both horizontal and vertical
- ✓ Waterproofing below ground structures and tunnels
- ✓ Protection of sprayed polyurethane foam insulation
- ✓ Protection of structures exposed to marine/saline atmosphere
- ✓ Waterproofing complex geometric structures such as chimney, domes, silos, arches, etc.

### Advantages

- ✓ Provides efficient and economical protection against water seepage and corrosion
- ✓ Excellent roof resistance
- ✓ Good resistance to mild acids, mild alkalis, saline, and corrosive atmosphere
- ✓ Remarkable UV resistance and outdoor durability
- ✓ Good mechanical strength
- ✓ Elastomeric and high crack bridging ability
- ✓ Forms seamless, blister-free monolithic membrane
- ✓ Good adhesion to primed surfaces
- ✓ Application by roller, brush, or airless spray

### Technical Properties

Colour	Grey / Terracotta
Solid by volume, %	100
Tack free time	~1 hour
Recoating time	10 to 12 hours
Theoretical coverage*	3.50 m <sup>2</sup> to 7.50 m <sup>2</sup> /L (2.5 m <sup>2</sup> to 5m <sup>2</sup> /kg) @ 100 to 200 microns d.f.t
Service temperature	-35°C to +85°C
Mixing ratio	1: 1 by weight
Foot traffic	After 24 hours
Pot life @ 25°C, R.H 60%	30 to 35 minutes
Density	1.4 ± 0.05 g/cc

\*Coverage is approximate, and it depends up on the site conditions and the surface porosity at the time of application.

### Properties of Cured Material

Properties	Standard	Value
Elongation at break	ASTM D412	≥ 550%
Shore A Hardness	ASTM D2240	≥ 85
Tensile Strength	ASTM D412	17 ± 0.5 MPa
Tear Resistance	ASTM D4073	≥ 70 N/mm
Water Absorption	ASTM D471	≤ 0.3%
Low Temperature Flexibility @ 35°C	-	No cracks
Suitable for contact with Portable water	BS 6920	Passed
Weathering QUV 1000 hours	ASTM G 154	No cracks No delamination
Adhesion to concrete	ASTM D4541	≥ 2 MPa

### Application Information

Substrate temperature	+10°C Min. / +45°C Max.
Pot life @ 25°C, R.H 60%	+10°C Min. / +45°C Max.
Sub	< 5%

## Application Instructions

### Surface Preparation

New concrete should be  $\geq 28$  day old and sound with moisture content  $< 5\%$ . Remove all laitance, foreign matter, dirt, oil, grease, and loose particles using conventional methods. All existing cracks and expansion joints shall be treated with CCI NeoSealant PU polyurethane sealant (refer Technical Data Sheet).

Provide 75 mm  $\times$  75 mm coving at H-V junctions using polymer modified mortar modified with acrylic polymer CCI NeoAcrylic (refer Technical Data Sheet).

### Surface Priming

Prime the concrete/metal surface with CCI Neothane P, single component Polyurethane primer, applied at 4 m<sup>2</sup> to 6 m<sup>2</sup>/ kg. Allow the primer to dry. On a very absorbent or porous surface, it is necessary to apply a second coat of primer.

### Application

CCI Neothane PUR is supplied as pre-weighed two components, ready to use at site. The components of CCI Neothane PUR shall be mixed by taking Part-A pigmented resin component in a clean container followed by addition and gradual mixing of Part-B hardener component using slow speed heavy-duty electric stirrer to achieve homogeneous and uniform colored mix.

After preparation of mix, wait for 5 minutes to allow entrained air to escape. The prepared mix is then applied by brush or roller or spray at 3.5 m<sup>2</sup> to 7.5 m<sup>2</sup>/L. A minimum of two coats are recommended, the second coat applied perpendicular to the first coat after the first coat is dry (after 12 hours).

### Cleaning

Immediately after the application of CCI Neothane PUR, use suitable aromatic solvent for cleaning application tools.

### Packaging

5 kg and 10 kg unit packs.

### Shelf life & Storage

12 months from the date of manufacture when stored in unopened, original sealed and dry condition at a temperature range from +5°C to 40°C. Store under the shed and protect from extremes of temperature, heat, direct sunlight, spark, and children.

### Safety Precautions

As with all chemical products, care should be taken during the use and storage of CCI Neothane PUR.

- ✓ This product contains Isocyanate. Avoid contact with eyes and skin.
- ✓ Wear suitable protective clothing such as overalls, goggles, dust mask and gloves.
- ✓ Ensure that there is adequate ventilation in the area where the product is being applied.
- ✓ Do not breathe in vapour or spray mist.
- ✓ This product is flammable.
- ✓ Keep away from sources of ignition.
- ✓ Take precautionary measures against static discharge.
- ✓ In case of fire, blanket flames with foam, carbon dioxide or dry chemicals.
- ✓ Eye protection during application is recommended.
- ✓ In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- ✓ In case of skin contact, wash with soap and plenty of water. Get medical attention if irritation develops or persists.

Before use, refer to the Material Safety Data Sheet (MSDS). The MSDS is available on [www.ccichemicals.in](http://www.ccichemicals.in) or contact us at [info@ccichemicals.in](mailto:info@ccichemicals.in).

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