

# CEMTEC A-II PU

## POLYURETHANE WATERPROOFING COATING



### DESCRIPTION

**CEMTEC A-II PU** is a two-component 100% solids, thixotropic coating based on superior quality polyurethane resins to form a tough elastic hydrophobic membrane suitable for waterproofing and protection on wide range of substrates. It can be used for both vertical and horizontal applications.

### FEATURES AND BENEFITS:

- Excellent adhesion on almost all types of substrates.
- High bond strength even without primer.
- Hydrophobic and hydrolysis resistant.
- Wide service temperature range -40°C to 90°C.
- Good chemical resistance
- High build application in a single layer, however two coat application is recommended.
- Chemical cure does not require the presence of moisture.
- Excellent Mechanical properties with high tensile, elongation and tear enabling expansion and contraction with the substrate, eliminating the possibilities of cracking /brittleness
- Cuts cost of application by eliminating lapping, seaming and precutting typically associated with self adhesive membranes.
- Free of potential hazardous coal tars.
- Does not stain tiles or marbles.
- Solvent & VOC free
- Can be applied both vertically and horizontally

### BASIC USES

**CEMTEC A-II PU** is recommended for all types of waterproofing and dampproofing applications. These include:

- Waterproofing between slabs, such as parking decks, roof decks or courtyard areas over subterranean parking.
- Waterproofing exterior walls, foundations, basements or other structures that are to be backfilled.
- Waterproofing inside planter boxes.
- Waterproofing under shower pans, kitchen, laundry and bathroom floors.
- Waterproofing of swimming pools, tanks.
- Waterproofing of areas under malls, plazas and promenades
- Waterproofing of those areas which are subjected to expansion and contraction.

**CEMTEC A-II PU** is completely non-toxic in its cured state. The coating fills and covers cracks and because of its flexibility, allows it to move with changes in temperature. The product is firmly bonded to substrate so water cannot flow underneath the lining as it does with sheet lining materials. For immersed conditions, CEMTEC ELASTOPOXY PRIMER is recommended as a primer.

### DIRECTIONS FOR USE

#### SURFACE PREPARATION:

All surfaces should be clean, dry and free of all laitance, cured membrane, grease, oil and other loose and flaking particles. Concrete surfaces should have a light steel trowel followed by a fine hair broom or equivalent finish which is dry and free from foreign matters. All high spots should be removed. Concrete surfaces which are subjected to immersion condition must be blast cleaned, and should be primed with CEMTEC ELASTOPOXY PRIMER.

#### MIXING

The two components should be mixed thoroughly by mechanical means (use a slow speed, heavy duty mixer). The mixing can be carried out in the PART A container. PART B should be added while stirring/agitating the PART A. Mix thoroughly until the mixture becomes uniform before application.

#### APPLICATION

**CEMTEC A-II PU** can be applied by airless spray / squeegee or preferably with roller. **CEMTEC A-II PU** should be applied at a minimum dry film thickness of 1mm in multiple coats for both horizontal and vertical applications.

#### POT LIFE

When the two components are mixed **CEMTEC A-II PU** has a pot life of about 45 minutes at 25°C. The pot life depends upon the climatic condition and temperature. Once gelled the coating should not be used for further applications.

#### MAINTANANCE

If **CEMTEC A-11 PU** is damaged it can be repaired by cleaning the surface and recoating the damaged areas with **CEMTEC A-11 PU**.

#### CLEANING

Clean tools and equipments with XYLENE or MEK.

<b>COVERAGE</b>	Theoretically, CEMTEC A-II PU covers 1 sqm/ltr at 1000 micron dry film thickness.
<b>PACKAGING</b>	Available in 10 liter kits
<b>COLOUR</b>	CEMTEC A-II PU is available in black, grey, and brick red colors

## STORAGE AND HANDLING:

**CEMTEC A-II PU** has a shelf life of 6 months when stored in the original unopened pails, in dry places and at temperatures of 10-38°C. Do not open containers until ready to use the materials

## PRECAUTIONARY NOTE

- The substrate should not contain any traces of water. Any water present should be removed at least 24 hrs prior to application and the substrate should be substantially dry.
- Application should not commence if the temperature is below 5°C, contact CMCI technical department for assistance.
- After the mixing of two components the material should be used within the gel time.
- The material should not be thinned.
- Not recommended to be exposed to direct sunlight.
- If used as roof coating, ensure that it is covered by suitable protective top coat.

## HEALTH & SAFETY

Keep out of reach of children. Use only with adequate ventilation. Prevent contact with skin, eyes, and clothing. Wash thoroughly after handling. Use impervious gloves and eye protection. If **CEMTEC A-II PU** is used in a poorly ventilated area, use approved respiratory protection.

## FIRST AID

In case of eye contact, flush thoroughly with water for at least 15 minutes. In case of skin contact, wash affected areas with soap and water. Remove and wash contaminated clothing. If inhalation effects occur, remove to fresh air. If discomfort persists or any breathing difficulty occurs, SEEK IMMEDIATE MEDICAL ATTENTION.

PROPERTY	UNITS / METHOD	COMPONENT A	COMPONENT B
Form	-	Thixotropic liquid	Liquid
Recoating time	hours	16-24 hrs	
Potlife @ 25 °C	minutes	45 minutes	

PROPERTY	UNITS	METHOD	RESULT
Service temperature	°C	-	-40 to 90
Hardness	Shore A	ASTM D 2240	>60
Elongation	%	ASTM D 412	>500
Tensile strength	Kg /cm <sup>2</sup> (N/mm <sup>2</sup> )	ASTM D 412	>2
Tear strength	Lbf/inch	ASTM D 624	60
Water absorption	%	DIN 53495	<2.5
Solid content (by weight)	%	ASTM D 2939	96
Adhesion to concrete	Kg /cm <sup>2</sup> (N/mm <sup>2</sup> )	ASTM D 7234	> 2.4Mpa

### Quality Statement

CMCI manufactures its products at their manufacturing facility in Saudi Arabia as per the Quality Procedures certified to conform with quality Management System described in ISO 9000 series

TD/0521/C

CMCI provides a comprehensive technical support system for its full range of high performance construction products CMCI also offers full technical field support to consultants, Architects, contractors, applicators and End Users.

**"High Quality Construction Chemicals"**  
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The Technical Specification information and recommendations given are based on the current technical knowledge and the user or his representative is recommended to check the suitability of the product CMCI reserves the right to amend the technical characteristic of the product as part of ongoing research and development. As the work execution is beyond the direct and continuous control of CMCI no guaranty and or responsibility is assumed on the performance of work completion executed with use of our products.