

# CEMTEC A-II P.U.

(Formerly Cemtec All Black PU)

## WATERPROOFING MEMBRANE POLYURETHANE COATING

### PRODUCT NAME

#### CEMTEC A-II P.U.

A liquid applied, two-component polyurethane system, designed to form a tough rubber membrane impervious to moisture.

Type I : For Horizontal Surfaces

Type II : For vertical Surfaces.

### PRODUCT DESCRIPTION

**Composition:** A two component system, which does not depend on moisture to cure.

**Basic Uses:** Once cured, **CEMTEC A-II P.U.** allows expansion and contraction over a broad temperature range and maintains flexibility and water proofing properties under continuous exposure to water above or below grade. **CEMTEC A-II P.U.** has a thixotropic consistency and may be used on vertical as well as horizontal surfaces and remains flexible from -59° C to +79° C.

**Suggested areas of application are as follows:**

- Waterproofing between slabs, such as parking decks, roof decks or courtyard areas over subterranean parking.
- Waterproofing exterior walls or foundations and 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.
- Waterproofing of areas under malls, plazas and promenades.

**Water Reservoirs: CEMTEC A-II P.U. RESERVOIR GRADE** has been used with outstanding success as a lining for potable water reservoirs. It does not impart any color, odor, or taste to the water and 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.

### Advantages

- Applied cold by spray methods, brush or roller.
- May be applied over concrete, stone, bricks, cement blocks, wood, metal, asbestos and most other surfaces.
- **CEMTEC A-II P.U.** cuts cost of application by eliminating splicing, sealing tapes, adhesives and other labor consuming methods required when installing other conventional types of waterproofing systems.
- The superior flexibility and elongation properties of **CEMTEC A-II P.U.** allows expansion and contraction with the substrate, without cracking or becoming brittle.
- Excellent adhesion, combined with all elastomeric qualities makes the use of protective covering prior to backfilling unnecessary, unless the backfill material contains crushed rocks.
- Does not contain any potentially hazardous coal tar.

**Color** : Black, Grey, White, Brick Red

**Standard** : ASTM C 836 – 95

**Shelf Life** : 6 months.

### TECHNICAL DATA

**Tensile strength** : 300 psi/2 MPa

**Ultimate elongation** : 750%

**Shore A hardness** : 10

**Peel strength on concrete** : 20 P.L.I./3.57 kg L.cm

**Moisture vapor transmission Gms/hr/ft** : 0.02

**Curetime** : 24 hrs. between coats

### INSTALLATION

**CEMTEC A-II P.U.** best applied by airless spray. However, when the application does not lend itself to spraying, it may also be applied by roller, brush or squeegee.

All cracks over 1.5 mm in width must be repaired prior to the application of the coating. **CEMTEC A- II P.U.** may be used in a single 1mm application over sound surfaces without danger of gassing. Application must be made monolithically and care must be taken to avoid pin holes.

### **COVERAGE**

Theoretically, **CEMTEC A-II P.U.** covers 1 sqm/ltr at 1000 micron dry film thickness.

### **PACKAGING**

Available in 10 & 20 ltr units

### **MAINTENANCE**

If **CEMTEC A-II P.U.** is damaged it can be repaired by cleaning the surface and re-coating it with **CEMTEC A-II P.U.**

### **CLEANING**

Clean equipment with xylene or MEK

### **LIMITATIONS**

- Not recommended to be exposed to direct sunlight.
- If utilized as roof waterproofing ensure the **CEMTEC A-II P.U.** is covered.
- Solvents used during the application of **CEMTEC A-II P.U.** are flammable. Keep away from heat, sparks, open flame or lighted cigarettes. Use explosion-proof application equipments.

#### **QUALITY STATEMENT**

CMCI manufacture 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

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

The Technical Specification information and recommendation 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.