

CEMTEC A1 WHITE P.U.

LIQUID APPLIED WATER PROOFING MEMBRANE



DESCRIPTION

CEMTEC A1 WHITE P.U. is a one component liquid cold applied waterproofing membrane based on polyurethane resin. It is primarily designed to give superior water proofing protection to virtually all substrates. It reacts with moisture in the atmosphere and forms an impervious, rubberized membrane that resists water, oil, fuel and other common air pollutants. It is an advanced state-of art waterproofing system and offers tangible, cost saving benefits over conventional sheet-type and bitumen based systems.

FEATURES & ADVANTAGES

- Easy to apply by brush, roller or spray. Eliminates the use of adhesives, sealing tapes, blow torches, heating kettles commonly associated with sheet-type or bitumen based systems. No need for highly skilled laborers.
- Does not create mess or objectionable odor like bitumen based materials.
- Provides a seamless (no joint) waterproofing unlike sheet type membranes whose application is susceptible to water leak coming from the seams.
- No waste and cuttings
- Resists deterioration from salts, acids, oil, alkali solutions, gasoline and bacteria.
- Adheres tenaciously to any substrate and remains flexible under extremes of temperature; will not crack or become brittle with age.
- Versatile, nonflammable and non-toxic
- Due to efficiency in application, labor cost is reduced and results in shorter completion time of construction

BASIC USES

CEMTEC A1 WHITE P.U. is widely used to waterproof concrete substrates, G.I. Sheeting, external plywood and light weight concrete substrates. If **CEMTEC A1 WHITE P.U.** is exposed to direct sunlight, it may change its colour to pale yellow due to the aromatic nature of the material. For exposed application, it is recommended that **CEMTEC A1 WHITE P.U.** should be used as a base coat at a thickness of 500 micron DFT followed by a top coat of CEMTEC ALIPHATIC P.U. applied at a thickness of 350 micron. The total system should have a minimum thickness of 850 DFT

DIRECTION FOR USE

The surfaces which are to be coated with **CEMTEC A1 WHITE P.U.** should be free from all foreign matter, dirt, dust, paint, oil, grease, etc. All surfaces have to be dry and sound. Cracks should be repaired with Latex Modified Repair Compounds. All laitance should be removed prior to application. For application over G.I. Sheeting, ensure all rust and corrosion is totally removed and all joints should be secured and fixed. If the substrate exhibit high porosity on the use of **CEMTEC A1 WHITE P.U.** primer should be introduced. The mixing ratio is (3) three part **CEMTEC A1 WHITE P.U.** and (1) one part Xylene (Thinner) by volume

Application

CEMTEC A1 WHITE P.U. should be applied at the rate of 0.8 m² per liter to get 1mm DFT. consumption of the coating depends on the surface profile. If a primer is required, it should be applied at a thickness of approx. 300 micron and the top coat of approx. 700 micron. If primer is not necessary, apply two (2) coat at 500 micron DFT per coat. Application can be by airless spray, brush, or short hair rollers. Airless spray equipments should have 30 to 1 ratio. Graco King Spray Equipment is recommended. For application over polyurethane foam insulation, **CEMTEC A1 WHITE P.U.** should be applied within forty eight (48) hours of the polyurethane foam insulation being applied. Allow 24 hours curing time between coats.

Cleaning

Clean all equipment with Xylene or MEK

Maintenance

If **CEMTEC A1 WHITE P.U.** is damaged, it can be repaired by cleaning the surface with MEK and removing the defective section and re-apply **CEMTEC A1 WHITE P.U.**

LIMITATIONS

- Not Recommended to be exposed to direct sunlight
- Open only the required amount of material that can be used. The material will harden/cure in the container if not used.
- If R.H. is less that 50% contact CMCI Technical Dept.
- Solvents in **CEMTEC A1 WHITE PU** are flammable. Keep away from heat, sparks, open flame or lighted cigarettes. Use explosion-proof application equipments.

COVERAGE	20 liter pail will cover 16 m ² at 1mm DFT
PACKAGING	20 liter pail.
COLOR	White

HEALTH & SAFETY

- DO NOT USE **CEMTEC A1 WHITE P.U.** on wet or unprepared surfaces.
- Solvents in **Cemtec A-1White PU** are flammable. Keep away from heat, sparks, open flame or cigarettes.
- Use explosion proof application equipments If the relative humidity is less than 50% please contact CMCI Technical Department.
- Use protective clothing gloves, mask, goggles, etc.
- Avoid inhalation or contact with skin or eyes. In such events remove the person to fresh air, water with clean water over the affected area and call for medical attention.

PHYSICAL PROPERTIES

PROPERTIES	RESULTS	TEST METHOD
Tensile Strength	245 p.s.i	ASTM D 412
Elongation	600%	ASTM D 412
Low Temperature Flexibility Cracking	None	ASTM D 836
Shore A Hardness	45	ASTM D 2240
Moisture Vapour Transmission In Service Temperature	2.5 grains/hr/sq.ft.	ASTM D 1653
20 hours at 70° C Cracking Shrinkage Decrease in Elongation	None None None	
20 hours at 120° C Cracking Shrinkage Decrease in Elongation	None None 5%	
Salt Spray Resistance, 300 hours Corrosion	None	ASTM B 117
Chemical Resistance, % wt. change Water 10% NaCl 5% NaOH 5% H ₂ SO ₄ 5% HCl	5.1 0.9 1.0 4.1 4.7	

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

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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