

CEMTEC AL PU COATING

ALIPHATIC POLYURETHANE COATING



DESCRIPTION

CEMTEC AL PU COATING is an aliphatic, one component, liquid applied, moisture cured, polyurethane surface coating. **CEMTEC AL PU COATING** is ultra violet light stable and will retain its surface glossiness for a long period of time.

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 system. No need for highly skilled laborers. UV Resistant abrasion Resistant & Flexible.

BASIC USES

Designed for internal and external applications. Can be applied to concrete, metal substrates, masonry, and wooden surfaces. **CEMTEC AL PU COATING** can also be used as a top coat over aromatic polyurethane water proofing membranes to provide additional solar reflection and U.V. resistance. **CEMTEC AL PU COATING** will prevent dirt and oil pick up and is easy to clean by general detergents and water. In the pigmented form, it is used on floors to hide dullness or to provide a reflective, glossy appearance, which will brighten up a warehouse. **CEMTEC AL PU COATING** will give brightness to an exposed aggregate, concrete floor etc. **CEMTEC AL PU COATING** is extremely abrasion resistant compared to normal paints, making it ideal for use in garages, workshops, machine rooms, etc. In addition, the coating is resistant to chemicals including alkalis, solvents and oil. **CEMTEC AL PU COATING** exhibits a non-yellowing nature and it is therefore highly recommended for exterior applications. Generally used as a glaze coat for flooring systems.

DIRECTIONS FOR USE:

Some precautions need to be followed for application of **CEMTEC AL PU COATING**. Application should not be stopped part way across an area and than completed several hours later. Any remaining material must be kept in tightly sealed containers.

Before application, mix **CEMTEC AL PU COATING** with a slow speed jiffy mixer for minimum 5 minutes. If mixed by hand, mix **CEMTEC AL PU COATING** thoroughly until a homogeneous mixture is obtained.

The first coat of **CEMTEC AL PU COATING** should be applied at the rate of 0.2 ltr/square meter.

For best results, apply by airless spray. Roller or brush may be used but care should be taken not to cause air bubbles. Spread **CEMTEC AL PU COATING** evenly over the entire surface resulting in 75 - 100 microns DFT. Where a higher thickness of the membrane is desired, a second coat may be necessary, depending on job specification and requirements. To ensure good adhesion, the material should be applied in two coats. The second coat should be applied after 24 hours and within 48 hours (coverage rate tends to increase for second coat).

Curing

The first coat of **CEMTEC AL PU COATING** should be applied at the rate of 0.2 ltr/square meter. For best results, apply by airless spray. Roller or brush may be used but care should be taken not to cause air bubbles. Spread **CEMTEC AL PU COATING** evenly over the entire surface resulting in 75 - 100 microns DFT. Where a higher thickness of the membrane is desired, a second coat may be necessary, depending on job specification and requirements. To ensure good adhesion, the material should be applied in Allow each coat to cure for a minimum of 24 hours. Before permitting traffic on the completed system, allow **CEMTEC AL PU COATING** to cure 48 - 72 hours. Note: Curing time depends on relative humidity and ambient temperature. Low temperature and low humidity will extend the curing time. coats. The second coat should be applied after 24 hours and within 48 hours (coverage rate tends to increase for second coat).

Installations

Surface Preparation : CEMTEC AL PU COATING may only be applied to dry, clean surfaces, It is recommended to prepare concrete floors by acid etching or sand blasting. All other surfaces such as wood, metal stucco or exposed aggregate concrete do not need any other preparations besides cleaning. All Metal surfaces must have no oxidation present at the time of application. Ceramic tile should be degreased or stripped to make sure there is no wax left on the surface. When application is over an existing polyurethane coating, ensure that the area is free from all dust, dirt and foreign matter. Inspection of the existing membrane should be made to ascertain if any damage to the existing membrane is present. To repair any damage to the existing membrane, clean the surface and recoat with **CEMTEC AL PU COATING**. U.V. Resistant water-proofing membrane and allow to cure.

COVERAGE	5 m ² / Liter @ 120 microns DFT
PACKAGING	5 us gallon
COLOR	white & Grey

CLEAN UP

Equipment should be cleaned with XYLENE or CEMTEC SOLVENT

MAINTENANCE

If **CEMTEC AL PU COATING** is damaged, it can be repaired by cleaning the surface with MEK, XYLENE or CEMTEC SOLVENT and re-coating it with **CEMTEC AL PU COATING**.

HANDLING & STORAGE PRECAUTIONS

HANDLING & STORAGE PRECAUTIONS Keep liquid and vapours away from heat, spark and flame. Turn off all sources of ignition prior to use and until vapours are gone.

LIMITATION

it is a moisture reactive material, hence containers that have been opened should be used up within two days. it forms a skin when exposed to air.

HEALTH & SAFETY

- 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.
- Smoking should be strictly prohibited during application. In confined areas of application, breathing equipment should be made available for operatives.

PROPERTY	TEST METHOD	RESULTS
D.F.T thickness per coating		120+/- 30 Microns
Hardness	ASTM D 2240	85+/- 5 Shore A
Shelf Life		6 months
Specific Gravity		1.27 approx
Tear Resistance	ASTM D 624	45 kN/m
Tensile Strength	ASTM D 412	3250 pli
Total solid by weight	ASTM D 2369	75%
Total solid by Volume	ASTM D 2697	60%
Ultimate Elongation	ASTM D 412	130%

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

TSS/TDS/160222-B

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.