

CEMTEC AL PU COATING

ALIPHATIC POLYURETHANE COATING

PRODUCT DESCRIPTION

Composition: **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.

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 CEMTEC PU SOLAR REFLECTIVE U.V. RESISTANT WATER-PROOFING MEMBRANE 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 glazecoat for flooring systems.

Limitations:

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.

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 then completed several hours later. Any remaining material must be kept in tightly sealed.

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. 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

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.

PACKAGING

20 ltr pails.

COVERAGE

5 to 6 square meter per liter.

INSTALLATION

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 re-coat with **CEMTEC AL PU**, U.V. Resistant waterproofing membrane and allow to cure.

PROPERTY	TEST METHOD	RESULTS
D.F.T. thickness per coating	ASTM D 2240	120+/- 30 Microns
Hardness		85 +/- 5 shore A
Shelf Life		6 months
Specific Gravity		1.27 approx.
Tear Resistance	ASTM D 624	100 pli
Tensile Strength	ASTM D 412	3250 psi
Total solid by weight	ASTM D 2369	75%
Total solid by Volume	ASTM D 2697	60%
Ultimate Elongation	ASTM D 412	130%

EQUIPMENTS CLEAN UP.

Equipment should be cleaned with Xylene.

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.

MAINTENANCE

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

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.