

# CEMDECK ALIPHATIC

## UV AND ABRASION RESISTANT ELASTOMERIC COATING

### DESCRIPTION

**CEMDECK ALIPHATIC** is a single component moisture cured polyurethane based floor top coating with outstanding adhesion. On curing, it produces a very hard, tuff abrasion resistant flexible UV resistant coating, resistance to oil, petrol, detergent and chemical solutions.

### PROPERTIES

**CEMDECK ALIPHATIC** is easy to apply, single component polyurethane sealer coating. The material reacts with atmospheric humidity to form a tough hard abrasion resistance, flexible polyurethane sealer coating with excellent adhesion on all types of surfaces, concrete, metal, wood and porous concrete surfaces. The cured film exhibits excellent resistance to lubricants, petrol, detergent, water and a various alkali and diluted acids.

**CEMDECK ALIPHATIC** can be applied over epoxy and polyurethane base coats such as Poxeocote range of epoxies and Uniflex range of Polyurethanes.

### USES

**CEMDECK ALIPHATIC** is primarily designed for use in UV exposed Car parks as a protective sealer / coating. **CEMDECK ALIPHATIC** can also be used in warehouse facilities, Factory Floors and production facilities.

### TYPICAL PROPERTIES

Specific gravity	: 1.15 ± 0.1
Flash point	: 38°C
Appearance	: Matt
Permissible Relative Humidity for application	: % min. 40 : % max. 90
Volume solids	: ~ 95%

### TYPICAL CURING PROPERTIES

Touch dry	: 4 hrs.
Tack free	: 6 hrs.
Hard	: 18 hrs.
Sward hardness	: 45 after 3 days
Recoatibility interval	: 12 hrs min. 2 days max.
Substrate Application Temperature	: min. 5°C max. 35°C

Gas is released during the cure and this normally permeates through the film. However, if the film is applied too thickly or the substrate is damp, bubbling of the coating can occur.

### PACKING

**CEMDECK ALIPHATIC** is packaged in 10 & 20 ltr pails.

### COLOURS

Available in Gray, Light Gray and Dark Gray color

### SURFACE PREPARATION

All surfaces must be dry and clean, free of pollution fallout, dirt, grease, surface chemicals or other foreign contaminants which will interfere with proper adhesion. A careful examination must be made to ensure that any accumulated oil, smoke, wax or any other materials which could interfere with adhesion has been removed.

The surface temperature should be minimum 3°C above the dew point temperature. The surface moisture content may not exceed 4%.

When **CEMDECK ALIPHATIC** is applied directly to concrete, steel, wood etc., the following surface preparation procedures should be followed:

#### Steel Surfaces

Steel must be dry and clean and free of excessive rust scale, pollution fallout, dirt, grease, surface chemicals or other foreign contaminants. Metal surfaces shall be chemically cleaned or sandblasted according to specific job requirements. The cleaned or sandblasted surface shall be primed by the end of same workday, but in any event before any visible rusting occurs. If rusting occurs after blast cleaning, the surfaces shall be reblasted before priming.

#### Concrete Surfaces

Concrete shall be dry and clean, free from any dirt, grease, oil, pollution fallout, smoke wax, form release agents, surface chemicals or other foreign contaminants which could interfere with proper adhesion. Surfaces shall be free of sharp projections, ridges and loose aggregate.

Sandblasting of concrete will be required if the surfaces are contaminated to the point that acid, chemical cleaning or power washing is not sufficient for removal.

Concrete surfaces having a smooth, steel trowelled finish may be acid etched or sandblasted. Prior to coating application, all loose material, foreign objects, dirt and dust shall be removed by use of power vacuum.

*“High Quality Construction Chemicals”*

### **Wood Surfaces**

Wood shall be dry and clean and free from any dirt, grease, oil, pollution fallout or other foreign contaminants which could interfere with proper adhesion.

All joints larger than 1/8" shall have an approved urethane sealant trowelled flush into opening. Allow to cure 24 hours prior to application of **CEMDECK ALIPHATIC**.

### **APPLICATION**

**CEMDECK ALIPHATIC** shall be stirred well before use and can be applied by brush, roller, air spray or airless spray. **CEMDECK ALIPHATIC** shall be applied to the prepared surface. It shall be allowed for 48 hours cure time before allowing any traffic on the finished system.

**CEMDECK ALIPHATIC** should be applied in 2 or more coats by a foam roller, squeegee. The first coat shall be a sealer coat applied as thin as possible. If necessary, dilute the material with 5-7% of **CEMDECK THINNER**.

**CEMDECK ALIPHATIC** is applied as thin coats with a roller or squeegee. Minimum 2 coats coverage (0.1- 0.2 ltr/m<sup>2</sup> per coat. (190 microns - 380 microns in two coats)

For additional mechanical strength, apply an extra coat to increase the chemical and mechanical properties. Apply an extra coat at a thickness of 0.1ltr/ m<sup>2</sup>. (95 microns)

### **Shelf Life**

Six months from date of delivery in un-opened containers. Store out of direct sunlight, and do not allow temperature to rise above 30°C.

### **HEALTH AND SAFETY**

**CEMDECK** contains Di-Isocyanate, Xylene and Methoxy Propyl Acetate.

#### **Harmful**

- Avoid contact with skin and eyes.
- Avoid Inhalation of fumes.
- May cause sensitization in some cases.

#### **Flammable**

- Avoid naked flames.
- Use flameproof electrical appliances.

#### **Precautions**

- Wear eye protection and gloves.
- Provide good ventilation and extraction.
- Medical screening of operatives who already suffer from respiratory ailments such as asthma is an advisable routine procedure.

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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.

#### **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