

# UREKEM SL

## SELF LEVELING PU FLOORING SYSTEM



### DESCRIPTION

**UREKEM SL** is polyurethane based flooring system, which possess high tensile strength with excellent balance of elongation, abrasion resistance, hardness and sound deadening properties. This system comprises the following solvent free primer/sealer, solvent free self-levelling polyurethane and a UV resistant aliphatic polyurethane top coat.

- CEMPOXY PRIMER** : Solvent free two component epoxy primer/sealer.
- UREKEM SL** : Solvent free two component, self-levelling polyurethane flooring with sound deadening property.
- CEMDECK ALIPHATIC** : Aliphatic polyurethane coating with excellent UV and abrasion resistance.

### FEATURES & BENEFITS

- Flowable consistency for self-levelling application.
- Bonds tenaciously to become an integral part of the floor.
- Easy application and easy to maintain.
- Excellent durability and impact resistance.

### BASIC USES

UREKEM SL system is used in the floorings of commercial and institutional applications; Used in the corridors, hospitals, production areas, show rooms, laboratories, etc.

### TYPICAL PROPERTIES

#### CEMPOXY PRIMER/ SEALER

- Mixing ratio of A:B : 100 : 43 parts by weight  
 Mixed density : 1.07  
 Gel Time at 25°C  
 ASTM C881-90 : 30 minutes  
 Recoatable time : approx 5 hours at 25°C  
 Tensile Strength  
 ASTM D638 : 8000 psi  
 Durometer : D scale 70 -75  
 Bond Strength  
 ASTM C882 : 1500 psi

#### UREKEM SL

- Mixing Ratio A : B : 100 : 23 part by weight  
 Pot Life at 25°C : 40 ±5 minutes  
 Shore A hardness : 85 ±5  
 Tensile Strength : 1800 psi

### CEMDECK ALIPHATIC 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  
 Recoatability interval : 12 hrs min. : 2 days max.  
 Substrate Application Temperature : min.5°C : max.35°C

### INSTALLATION

#### Surface Preparation

All surfaces shall be dry, clean and 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.

The actual surface preparation procedures which are to be followed will vary depending upon service conditions, conditions of the substrate, etc. The following surface preparation procedures and recommendations are provided for guideline use only.

Concrete surface shall be cleaned thoroughly removing all loose materials, dust, oil, grease, etc. Cement surface preparation methods such as captive blasting, high pressure water jetting, surface grinding can be adopted. Honey-Combs, blow holes (if any) present in the concrete should be filled with EPOMORT 1000 GEL / CEMTEC R44

#### APPLICATION OF PRIMER / SEALER

The concrete surface shall be primed/sealed with CEMPOXY PRIMER/SEALER. All materials shall be in the proper temperature range of 15°C - 35°C. Mix Part A and Part B (Resin & Hardener) for two minutes using a drill and mixing prop. The epoxy must be applied by brush, roller or airless spray. When the coating is wet, broadcast NSA

SYSTEM	CEMPOXY Primer /Sealer	UREKEM SL	CEMDECK ALIPHATIC	*Total System Thickness : 2 - 2.5 mm
COVERAGE	0.2 kg/m <sup>2</sup>	3.0 kg/m <sup>2</sup> * 3.4 kg/m <sup>2</sup> *	0.11 ltr/m <sup>2</sup>	
PACKAGING	4 kg kit	15 kg kit 20 kg kit	20 ltr pail	
COLOUR				

aggregates #3 at the rate of around 1 kg per square meters. The coating shall be allowed to cure for minimum 5 hours at 25°C. The loose aggregates shall be removed by vacuum cleaning or sweeping. Scrape the edge of a trowel over the surface to remove aggregate that may be projecting over the surface and clean the surface again.

### Application of self levelling polyurethane:

The hardener should be poured into the base resin in the mixing vessel and shall be mixed thoroughly for 1 - 2 minutes using heavy duty slow speed drill (400 rpm) with mixing prop, together using 5 kgs of NSA aggregates # 2. The mixing shall be then continued for 3 - 5 minutes to achieve a uniform consistency.

Continuous placement of an adequate quantity of material is necessary to provide the most uniform and level surface. Start in one corner and place a continuous stream of material along one edge of the area and back up the first placement strip as soon as possible to achieve a uniform, level surface. A serrated trowel shall be used to spread the material evenly to achieve the required thickness. Wait few minutes and then use a spiked roller to back roll the material to disperse any entrapped air and to further level the material. Light rolling may then be required if air release is still apparent in the surface. The rolling can be continued until the roller marks take two minutes to disappear.

### Application of Top Coat :

CEMDECK ALIPHATIC may be applied by all conventional means including spray equipment, roller and brushes. The recommended application rate of CEMDECK ALIPHATIC is two coats minimum. A third coat may be needed depending on job requirements. The second and third coat may be applied after an overnight cure, but it is important, for proper bonding, not to wait for more than 24 hours before recoating. Allow 48 hour final cure time before coating is exposed to traffic.

#### 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.

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 warranty and or responsibility is assumed on the performance of work completion executed with use of our products.

### CLEAN UP

Clean tools and equipment with CEMTEC SOLVENT

### Equipments / Tools

Shot / Sand blaster, Scabbler, Grinder, Masking tape, Serrated Trowel, heavy duty slow speed drilling machine fitted with suitable paddle, Spiked roller, Spiked shoes, brushes, etc.

### SHELF-LIFE

1 year. The products shall be stored away from direct sunlight and shall be protected from extreme temperatures. CMCI's technical department may be consulted for more information.

### HEALTH & SAFETY

- Avoid application when the air and floor temperature are below 50° F. (10°C).
- Store indoor at 45° to 110° F (7° to 43°C) do not use without a primer.
- Solvents are Flammable. Keep away from heat, sparks, open flame, or lighted cigarettes.
- Use explosion-proof application equipments.

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