

CEMTEC UREKEM ECB

ELASTOMERIC WATERPROOFING MEMBRANE



DESCRIPTION

CEMTEC UREKEM ECB is single component modified polyurethane waterproofing membrane that cures by reaction with atmospheric moisture to form a seamless tough rubber like membrane with exceptional elasticity to handle the nominal expansion and contraction of substrate.

FEATURES & BENEFITS

- One component ready to use
- Low cost
- Monolithic liquid applied membrane eliminates lapping, seaming and precutting which is typically associated with self-adhesive membranes
- Outstanding mechanical properties with high elongation, tensile and tear strength
- Free of hazardous coal tar
- Excellent resistance to oxidation and embrittlement
- Excellent adhesion over wide range of substrates
- Wide service temperature range (-40°C to 70°C) with excellent thermal stability.

BASIC USE

- Waterproofing of below grade concrete and between concrete slab, foundations, basements, decks, elevated sidewalks, road ways, concrete topping of roofing system and under flashings
- Used for single course construction of water proofing wet areas like toilets and kitchens, planters and base slabs in terrazzo and quarry tile floor construction.
- Long term of continuous water immersion does not affect **CEMTEC UREKEM ECB** adhesion to substrate .For such purpose, two part epoxy primer is to be used prior to applying the membrane

DIRECTIONS FOR USE

CEMTEC UREKEM ECB owing to its polyurethane modification has excellent adhesion over wide range of substrates even without the use of primers. Nevertheless, testing before use is strongly recommended contact CMCI technical department for further assistance.

Surface preparation

All surfaces should be clean dry sound and free of all laitance, cured membrane, grease, oil or loose and flaking particles .Concrete surfaces should have a light steel trowel followed by a fine hair broom or equivalent finish which is dry and free from foreign matters. All high spots should be removed. Mosses and lichens should be removed physically followed by treatment with fungicidal wash to kill spores and inhibit further growth. After treatment wash down thoroughly with clean water and allow to fully dry. All shrinkage, non-moving structural cracks and other surface irregularities should be pretreated. Allow pretreatments to cure overnight before general application. Newly rendered concrete should be cured for a minimum of 28 days before applying membrane.

Application

CEMTEC UREKEM ECB must be mixed well before application. It can be applied by using brush, trowel ,squeegee or airless spray at a wet film thickness not exceeding (300-400) microns on single coat. An application of 1000 dry film thickness is recommended for horizontal surfaces. Though **CEMTEC UREKEM ECB** is primarily designed for horizontal surface with superior self leveling properties, it can also be used over vertical surfaces with successive coats for obtaining the desired thickness. Do not apply membrane unless the ambient temperature is at least 5°C and rising. Cure time @25°C (50% R.H) – 36 hrs.

Priming

CEMTEC UREKEM ECB may develop blisters or bubbles when applied to concrete having a relatively rough finish or sand pits. This can be minimized by applying a prime coat of **CEMTEC UREKEM ECB** diluted with xylene in equal proportion or use two part epoxy primer. For applications, where the coating is subjected to long term immersion in water, the use of **CEMTEC ELASTOPOXY PRIMER** is recommended.

Cleaning

Tools and equipments should be cleaned with XYLENE or MEK.

HANDLING & STORAGE

CEMTEC UREKEM ECB has a shelf life of about 6 months in original unopened container when stored under dry condition at a temperature between 4°C and 30°C. In course of time an easily removable skin may form, which does not affect the use of the product

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Data Sheet



COVERAGE	(Dry film thickness coverage) 400 micron : 1.77 m ² /ltr, 800 micron : 0.885 m ² /ltr, 1000 micron : 0.664 m ² /ltr
PACKAGING	CEMTEC UREKEM ECB is packed in 20 liters packs
COLOUR	Contact CMCI tech dept.

PRECAUTION

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- Certain curing compounds and additives in concrete can have adverse effect on the bonding of **CEMTEC UREKEM ECB**. In such a scenario field test should be conducted.
- Do not apply **CEMTEC UREKEM ECB** over light eight concrete without the prior approval from CMCI technical service department
- Application should not commence below 5 °C.
- Delay external application when inclement weather is imminent.
- Once the container is opened ,it should be used otherwise hardening/curing of the material can happen with course of time.
- Do not use where solvent odor is objectionable

HEALTH & SAFETY

- Keep out of reach of children. Use only with adequate ventilation. Prevent contact with skin, eyes, and clothing. Wash thoroughly after handling. Use impervious gloves and eye protection. If **CEMTEC UREKEM ECB** is used in a poorly ventilated area, use approved respiratory protection
- 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.

TECHNICAL PROPERTIES

PROPERTIES	RESULT	TEST METHOD
Shore 'A' hardness	>40	ASTM D- 2240
Tensile strength	>2 Mpa	ASTM D- 412
Average elongation %	400 ± 10%	ASTM D- 412
Tear strength	50 PLI	ASTM D- 624
100% modulus	0.4 Mpa	ASTM D- 412
Moisture vapor permeability dry perms	0.1	ASTM E- 96
Crack bridging test, cycled 10 times per 24 hours @ -9 °C	PASSED @ 1.5MM	ASTM C- 836
Extensibility after heat ageing @	No cracking	ASTM C- 836
Adhesion to concrete	With primer: >2 mpa	ASTM D- 4541

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"
CONSTRUCTION MATERIAL CHEMICAL INDUSTRIES
P.O. Box 7137, Dammam 31462, Saudi Arabia,
Tel: 00966-13-8471450; Fax: 00966-13-8471575
Email: tech@cmci-sa.com, Web: www.cmci-sa.com

