

# CEMTEC MICRO CEMENT 101

## MICRO CEMENT SKIM COAT

### DESCRIPTION

**CEMTEC MICRO CEMENT 101** is a single component, high-performance, polymer modified, decorative cementitious micro cement skim coat topping, that can be troweled, brushed, rolled, and sprayed as a thin, seamless overlay onto walls and floors. **CEMTEC MICRO CEMENT 101** is applied in multiple layers, allowing the creation of a wide range of finishes. As part of an application system the surface should be prepared with CEMBOND 101 and with products recommended by CMCI.

### BASIC USE

**CEMTEC MICRO CEMENT 101** is suitable for use as skim coat topping over new concrete and to renovate, repair & restore concrete substrates or antique exterior & Interior walls & floors from commercial, and residential industries. **CEMTEC MICRO CEMENT 101** is perfect for vertical and horizontal surfaces finishing as continuous decorative coating without fissures (Note: always respect the expansion joints). It can be applied in thicknesses from featheredge to one mm or applying by layered to achieve greater thicknesses. **CEMTEC MICRO CEMENT 101** is perfect for restoring current concrete, marble, granite, ceramic floors or to homogenous the appearance of concrete surfaces.

### ADVANTAGES

- Excellent workability
- Exterior and interior application
- Resistance to moisture and water
- Fast drying and Self curing
- Superior adhesion
- Highly flexible
- Durable & long lasting

### PHYSICAL PROPERTIES

Dry Density	0.722 Kg/L
Mixed Density	1.66 ± .02
W/P ratio	38%
Consistency	Trowelable
Pot Life	2 Hours
Compressive Strength	6.6 MPa @ 7 days, ASTM C 109
Flexural Strength	2.79 MPa @ 7 days, ASTM C 348
Tensile Strength	2.01 MPa @ 7 days, ASTM C 496

### DIRECTIONS FOR USE

#### Surface Preparation

Before application of **CEMTEC MICRO CEMENT 101**, the substrate of **CEMBOND 101** must be prepared properly by slight sanding the surface until achieve the good flatness of the surface. Make sure the surface should be cleaned, free of dust, oil, grease.

#### MIXING

Mix **CEMTEC MICRO CEMENT 101** in the recommended ratio (W/P = .38) to ensure the product properties. 20 kg-pail of **CEMTEC MICRO CEMENT 101** should be mixed with 7.6 liters of clean sweet water. Pour the **CEMTEC MICRO CEMENT 101** gradually into the water while mixing the product with a low speed mixing drill for 4-5 minutes to achieve the desired mix consistency. Allow the mix **CEMTEC MICRO CEMENT 101** stand for 5 minutes and re-tamper.

#### APPLICATION

Application temperature should be between 7°C and 35°C. Prior commencing to work, always test a small area to ensure bonding ability and satisfaction of appearance before total application. **CEMTEC MICRO CEMENT 101** may applied by trowel, roll, sponge, brush, or spray. The mixed material must be used within 1 hour @ 25 °C. It is advisable to mix quantities in accordance with the experience of the applicator.

#### CURING

Do not water cure. **CEMTEC MICRO CEMENT 101** is self-curing. Apply water to the surface only if the final look requires such technique. **CEMTEC MICRO CEMENT 101** dries to touch in approximately 30 minutes. Horizontal surfaces can be opened to minimal traffic in 2 hours and opened to heavy traffic after 24 hours. Cooler temperatures may lengthen the curing time.

#### SEALING

The surface of **CEMTEC MICRO CEMENT 101**, specially flooring application must be sealed with CMCI recommended sealers. The sealers will act as a barrier against absorption and staining. Prior to the application of the sealers, it is recommended that the surface must be cured for a minimum of 24 hours. A light sanding on the surface of **CEMTEC MICRO CEMENT 101** is necessary to enhance the adhesion of the sealer. For heavy commercial use, a regular application of wax coat is recommended for maintaining the texture of the surface and re-sealed as necessary.

#### List of Recommended CMCI Sealers:

1. CEMTEC SEALER 101 (Glossy)
2. CEMTEC SEALER 101 (Matt)
3. CEMTEC SEALER 201 (Matt)

Scan Here For Download  
Data Sheet



<b>COVERAGE</b>	20 kg-pail of CEMTEC MICRO CEMENT 101 will yield 0.0166 m <sup>3</sup> and covers approximately 60 m <sup>2</sup> @ 0.277 mm thickness. The coverage will vary depending on application technique, substrate and finish. (Recommended thickness is 1 mm)
<b>PACKAGING</b>	20 kgs - Pail

## CLEANING

Clean all tools and equipment promptly with clean water. Once material has hardened, it can be only be removed by mechanical means.

## STORAGE

**CEMTEC MICRO CEMENT 101** will have a storage life of 12 months in unopened original packaging when kept in dry condition at 15°C & 45 °C. Storage at higher temperature and high humidity may reduce shelf life.

## LIMITATIONS

When applying over old concrete surfaces, particularly for high traffic condition, a coat of **CEMBOND 101** must first be applied to the properly prepared concrete surface. For all flooring applications, the surface must be sealed with CMCI recommended Sealers once the surface has cured for a minimum of 48 hours. If the surface coated with **CEMTEC MICRO CEMENT 101** is to be chemically stained, it must be cured for a minimum of three days. For over the tile application (please consult CMCI Technical Department for recommended procedure).

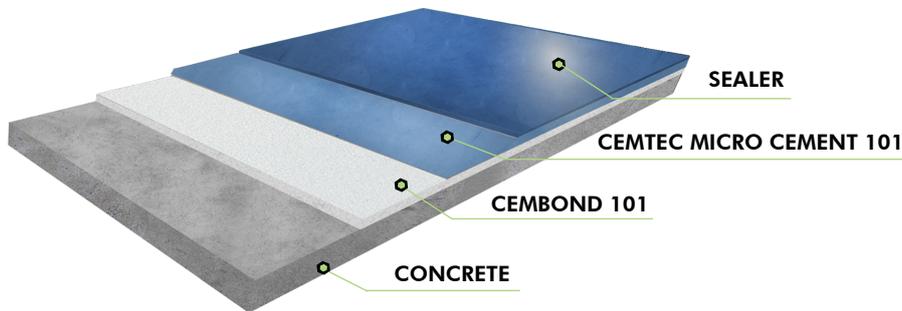
For the thicknesses larger than 1mm, must be applied in several layers. Allow each layer to dry for a minimum of 3-4 hours prior commencing to the next layer. Do not apply if ambient temperature is expected to drop below 7°C. Do not apply the product direct to sunlight, or when the temperature will exceed 35°C under direct of the sunlight. Do not apply if rain is expected to fall within 24-hour prior to your application.

## PRECAUTION

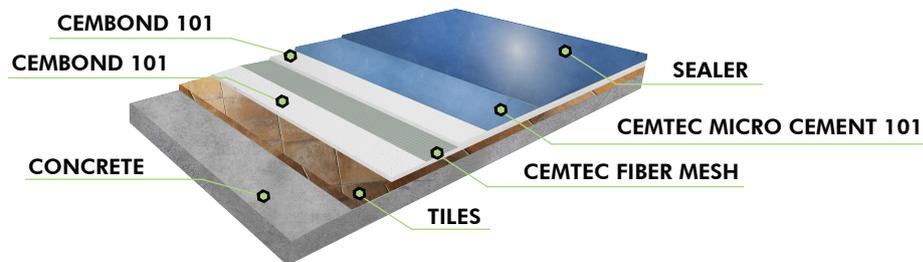
- Wear suitable protective clothing, safety goggles, gloves and respiratory protective equipment to avoid inhalation and contact with eyes and skin.
- In case of contact with eyes/skin, wash with plenty of clean water and seek medical advice.
- Use only potable water for mixing
- The product should not be exposed to moving water during or after application
- Empty containers must be disposed of in accordance with current local regulations.
- Keep out of reach of children.

### SYSTEM DETAILS

#### Concrete Flooring



#### Tiled Flooring



TD /0520 /A

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

"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

Scan Here For Download  
Data Sheet

