

# FLOORTOP 100

## SELF-LEVELING TRAFFIC GRADE WEARING SURFACE

**FLOORTOP 100** is a polymer modified cementitious material designed for use as a floor topping at thicknesses of feather edge to 19 mm. It is formulated to incorporate the state of the art latex technology which provides excellent traffic durability. **FLOORTOP 100** is placed at a self-leveling consistency and is suitable as an underlayment in dry, moist or wet areas.

### PRIMARY APPLICATIONS:

- **FLOORTOP 100** may be applied over any sound interior concrete surface. Leveling of surfaces and repair of old, worn concrete are ideally suited for **FLOORTOP 100**.
- Typical applications include floor repairs, warehouses, manufacturing facilities, rehabilitation, docks and office reconstruction.

### FEATURES / BENEFITS

- Quick, easy repairs of worn or irregular floor surfaces
- Bonds tenaciously to concrete
- Excellent wear resistance under fork lift traffic
- Flowable consistency for self-leveling application
- Pumpable through standard equipment
- Self-leveling for smooth, flat floors
- Good at thickness of featheredge to 19 mm
- May be used in wet areas
- Eliminates finishing procedures

### PACKAGING / YIELD

**FLOORTOP 100** is packaged in 27 kgs kits. Yield is about 13.5 liters.

### TECHNICAL INFORMATION

#### **Typical Engineering Data**

The following information was developed under laboratory conditions.

#### **Compressive Strength**

ASTM C-109 50 mm cubes

<b>Age</b>	<b>Strength</b>
1 day	2,400 psi (17 MPa)
3 days	2,900 psi (20 MPa)
7 days	4,000 psi (28 MPa)
28 days	5,500 psi (38 MPa)

#### **Bond Strength ASTM C-1042**

14 days	1,300 psi (9 MPa)
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#### **Abrasion Resistance**

Chaplin Abrader 15 minutes

5,000 psi (35 MPa) concrete : 3.78 mm

**FLOORTOP 100** : 0.17 mm

### DIRECTIONS FOR USE

**Surface Preparation**-New concrete must be a minimum of 28 days old if an epoxy adhesive is used to bond the topping. If a latex bonding agent is used, the concrete must be a minimum of 3 days old and must be textured at the time of placement to secure a good mechanical bond of the topping. If the new concrete is not finished with an appropriate texture, follow surface preparation procedures for old concrete.

Old concrete must be clean and textured. All oil, dirt, debris, paint and unsound concrete must be removed. The surface must be prepared mechanically using a scabber, bushhammer, shotblast or scarifier which will give a surface profile of a minimum 3.2 mm and expose the large aggregate of the concrete. The final step in cleaning should be the complete removal of all residue with a vacuum cleaner or pressure washing.

Acid etching is acceptable only when mechanical preparation is impractical. It is recommended that only contractors experienced in the acid etching process use this means of surface preparation. The salts of the reaction must be thoroughly pressure washed away. Allow the concrete to completely dry. Note: Even with proper procedures, an acid etched surface may not provide as strong a bond as those which are mechanically prepared.

All concrete must possess an open surface texture with all curing compounds and sealer removed.

**Joints and Edges** - Edges should be sawcut to 6.3 mm deeper than the topping thickness and notched at the edge of the overlay to provide locking in. Chip the edge with hand held chipping hammer to provide the wedge shaped notch. Moving joints as in the case of expansion joints should be brought up through the overlay by sawcutting or with the use of a divider strip. All cracks over 1.6 mm wide should be routed out to 6 mm width and 6 mm depth prior to application of the mortar.

**Bonding** - After the surface has been prepared prime all areas with either **EPOMORT 1000 EPOXY SYSTEM** or an **CEMPOL SBR** slurry. If **FLOORTOP 100** will be exposed to wheeled traffic, use **EPOMORT 1000** epoxy system for bonding. Follow mixing and placing instructions on the corresponding technical data sheet. Place the topping on the wet or 'tacky' primer before it cures. Primer must be ordered separately.

**Mixing** - Small quantities may be mixed with a drill and “jiffy” mixer. Standard grouting or underlayment equipment should be used for placing large quantities of material. Add the appropriate amount of water for the batch size and then add the dry product. Mix for a minimum of 3 minutes. The mixed product should be quickly transported to the repair area and placed immediately.

**Placement** - The product must be continuously placed to provide a smooth and uniform surface. Start in one corner placing a continuous stream of material along one edge of the area and back lap as soon as possible for a uniform, smooth surface. Tools such as spiked rollers, notched squeegees, trowels and smoothers may be used to assist placement.

**Finishing** - This product is self-leveling and requires no finishing or trowelling operation.

**Curing** - If **FLOORTOP 100** will be used as the final floor finish, or if the product will be exposed to the air longer than 3 days, moist/wet cure **FLOORTOP 200** for a minimum of 3 days.

#### **CLEAN-UP**

Clean tools and equipment with water before the material hardens.

#### **PRECAUTIONS / LIMITATIONS**

- Designed for interior use
- Do not use for exterior applications or in areas continuously subjected to moisture or water.
- Do not add admixtures or calcium chloride
- For leveling surfaces that will be left exposed, the use of **FLOORTOP 100** is preferred.
- Do not use at ambient temperatures that will fall below (4°C) within 72 hours.
- Do not allow to freeze for 7 days after placement.
- Store in a dry place.

#### **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.