

# FLOORTOP

## ONE-PART SELF LEVELING UNDERLAYMENT

**FLOORTOP** is a free flowing, self-leveling, compound specially designed for easy application over concrete floors as an underlayment for subsequent placement of floor coverings. It is suitable for use as a repair and leveling course and may be applied at thickness from featheredge to 25 mm. **FLOORTOP** is a one part system requiring only the addition of water for mixing.

### PRIMARY APPLICATIONS:

- Interior sound concrete sub-surface
- Unlevel floors
- Repair of old, worn concrete
- Wood floors
- Old floors with cut back adhesive
- Hospitals - hotels floors prior to carpeting

### FEATURES / BENEFITS

- Flowable consistency for self-leveling application
- Pumpable through standard equipment
- Self-leveling for smooth, flat floor
- Exceptional coverage rate for maximum yield and value
- Minimal shrinkage of outstanding resistance to cracking
- High early strength for early turn around
- Excellent bond strength for a composite floor section

### PACKAGING / YIELD

**FLOORTOP** is packaged in 25 kg bags that yield approximately 0.015 m<sup>3</sup> material. Coverage for one bag is approximately 2.3 m<sup>2</sup> at a 6 mm thickness.

Yield and coverage will vary depending upon the amount of water mixed with the **FLOORTOP**. The product must not be mixed at a consistency which promotes bleeding and segregation. Under no circumstances add more than 6.5 liters of water per 25 kg bag.

### TECHNICAL INFORMATION

#### Typical Engineering Data

The following information was developed under laboratory conditions.

**Compressive Strength** (ASTM C -109) 50 mm cubes

Age	Strength
2 hours	1,500 psi (10 MPa)
24 hours	2,300 psi (16 MPa)
3 days	2,800 psi (19 MPa)
7 days	3,600 psi (25 MPa)
28 days	5,000 psi (34 MPa)

Bond Strength ASTM C-1042

Age	Strength
7 days	700 psi (5 MPa)
14 days	1,000 psi (7 MPa)

Set Times ASTM C-191 @ 21°C

Initial : 45 mins

Final : 70 mins

### DIRECTIONS FOR USE

**Surface preparation**-New concrete must be a minimum of 3 days old and must be broom textured at the time of placement to secure a good mechanical bond for the underlayment. If the new concrete is not finished with an appropriate texture, follow surface preparation procedures below 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 similar to coarse grit sand-paper. 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 complete 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.

**Bonding** - After the surface has been prepared, prime all areas with **CEMWELD** or **COMPOL ACRYLIC**. Follow mixing and placing instructions on the corresponding technical data sheet.

Primer must be ordered separately.

**Mixing** - Small quantities of **FLOORTOP** may be bucket 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. Do not use water at a rate that will cause bleeding or segregation. Typical water requirement is 5.8 liter/25 kg bag.

Do not add more than 6.5 liter/25 kg bag. Mix for a minimum of 3 minutes. If bucket mixed, the product should be quickly transported to the repair area and placed immediately.

**Application** - For applications over 25 mm in thickness, add 9.0-11.3 kg of 3.2-9.5 mm aggregate to extend the initial layer. Placement options includes screeding or the use of pre-placed aggregate grouting techniques. After 24 hours, prime the surface of the initial layer and place additional underlayment to achieve the final smooth surface.

**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 troweling operation.

**Curing - FLOORTOP** does not require curing with standard methods for most applications. Under hot-windy or rapid drying conditions, a fog spray or wet cure for 24 hours is recommended after final set of material.

#### **CLEAN-UP**

Clean tools and equipment with water before the material hardens.

#### **PRECAUTION / LIMITATIONS**

- Designed for interior use
- Do not use for exterior application or in areas continuously subjected to moisture or water.
- Do not use **FLOORTOP** as a heavy duty wearing surface for industrial floors.
- 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.