

# CHEM-FLOOR SL C100

## ONE COMPONENT SELF LEVELLING UNDERLAYMENT

### DESCRIPTION:

**CHEM-FLOOR SL C100** is a free flowing, self-levelling 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 thicknesses from featheredge to 25 mm. **CHEM-FLOOR SL C100** is a one part system requiring only the addition of water for mixing.

### FEATURES & BENEFITS:

- Flowable consistency for self-levelling applications.
- Pumpable through standard equipment.
- Self-levelling for smooth, flat floor.
- Exceptional coverage rate for maximum yield and value.
- Minimal shrinkage for outstanding resistance to cracking.
- High early strength for early turnaround.
- Excellent bond strength for a composite floor section

### SURFACE PREPARATION & APPLICATION:

The surface must be structurally sound and porous enough to allow penetration and adhesion. Surfaces should be clean and free of surface laitance, dust, dirt, debris, mildew, oil, grease, previous sealers, curing agents, paint or other surface coatings, and other contaminants.

### BASIC USES:

- 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 or vinyl flooring.

### TECHNICAL INFORMATION:

#### Typical Engineering Data

The following information was developed under laboratory conditions.

### Compressive Strength (ASTM C 109)

#### 50 mm cubes

Age	Strength
24 hours	12 MPa
3 days	18 MPa
7 days	26 MPa
28 days	40 MPa

### Bond Strength (ASTM C 1042)

Age	Strength
28days	10 MPa

Set Times (ASTM C 191) @ 21°C

Initial: 60 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, bush hammer, shot blast 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 a bond as strong as those which are mechanically prepared. All concrete must possess an open surface texture with all curing compounds and sealer removed.

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### Bonding

After the surface has been prepared, prime all areas with **CHEMSEAL AC**. Follow mixing and placing instructions on the corresponding technical data sheet. Primer must be ordered separately.

### Mixing

Small quantities of **CHEM-FLOOR SL C100** may be bucket mixed with a drill and 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 4 liter/20 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 include 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-levelling and requires no finishing or troweling operation.

### Curing

**CHEM-FLOOR SL C100** 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.

### PRECAUTIONS / LIMITATIONS:

- Designed for interior use
- Do not use for exterior applications or in areas continuously subjected to moisture or water.
- Do not use **CHEM-FLOOR SL C100** 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 **CHEM-FLOOR SL C100** 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.

### COVERAGE / YIELD:

Coverage for one bag is approximately 2m at a 5 mm thickness. Yield and coverage will vary depending upon the amount of water mixed with the **CHEM-FLOOR SL C100**. The product must not be mixed at a consistency which promotes bleeding and segregation. Under no circumstances add more than 4 liters of water per 20kg bag.

### COVERAGE / YIELD:

**CHEM-FLOOR SL C100** is packaged in 20 kg bags.