



# SL-C13

## Commercial Self-Leveling Cement

Pack Size

25Kgs & 20Kgs

TDS

# Technical Data Sheet



## Description

SL-C13 has been especially designed to produce a smooth, flat surface when applied to hard, rigid sub-floors such as sand/cement screeds, concrete, etc. SL-C13 contains high-quality special cements and selected fillers so that, when mixed with water, a fluid, easily troweled mortar with free-flowing properties is produced. The mixed mortar can be applied up to a maximum thickness of 5 mm in one application but will more normally be applied at 3-5 mm.

## Features

- Cement-based
- Very low emission
- Produces flat and absorbent surfaces for the subsequent laying of all kinds of flooring products
- Pumpable
- Self-smoothing
- Almost tension-free
- Easy to grind
- Suitable for chair castors
- Suitable for underfloor heating
- For thickness up to 5 mm

## Use

SL-C13 should be used to level and smooth uneven internal sub-floors such as concrete, cement/sand screed, quarry tiles, etc., prior to the installation of resilient flooring. SL-C13 has been formulated to cater to the high humidities and high ambient temperatures typical in tropical climates.

## Surface Preparation

The surface must be hard, sound, and free of dust, dirt, and other barrier materials such as grease, paint, water-softenable adhesive residues, or loosely adhered materials. Use a suitable degreaser to remove polish, wax, grease, oil, and similar contaminating substances. Where hard, firmly adhered adhesive residues are present, they should be of sufficient cohesive strength to support the applied leveling compound; a trial application is recommended to assess suitability. Do not apply SL-C13 over old residues that are softened by water.

## Priming

Priming is mandatory, especially onto very absorbent sub-floors such as concrete or cement/sand screeds. Use CLI SLP - 11 Primer to seal the pores, prevent air bubbles from rising through the applied mortar, maintain flow life, and promote excellent uniform adhesion to the substrate. With very smooth, dense, and non-absorbent sub-floors, it may be necessary to use CLI N18 Primer to ensure adequate

adhesion of the subsequently applied SL-C13.

## Mixing

The use of a mixing paddle with a 10mm chuck and a variable speed drill ensures thorough mixing with maximum sheer yet minimum air entrapment and heat build-up. Always add correctly measured water to a clean mixing bucket first; SL-C13 powder should then be added while stirring slowly. Mix steadily and thoroughly until a lump-free fluid mortar is produced. After approximately two minutes of mixing, scrape down the sides and around the bottom of the bucket to ensure no deposits of dry powder. Continue mixing for another minute until an even consistency is achieved. It is not recommended to split bags of SL-C13; a 25kg bag should be mixed with approximately 5.5 - 6.0 liters of cool, clean water.

## Application

Pour SL-C13 mortar onto the primed sub-floor and use a steel finishing trowel or float to spread the mortar and finish off. The mixed mortar will flow out and self-smooth within the first 10 minutes of its 20 minutes working time. A 3 mm layer of SL-C13 will be walkable after approximately 3 hours at 27±1°C; this time is extended at lower and reduced where thinner applications are applied to absorbent sub-floors. Apply at temperatures above 5°C.

## Drying and Hardening

A 5 mm layer of SL-C13 is walkable after 3 hours and ready to receive floor coverings within 48 hours at 27±1°C.

## Cleaning

SL-C13 can be removed from tools and equipment by washing in clean water immediately after use. Any hardened material will need to be removed mechanically.

## Properties

The values shown are typical of results obtained in the laboratory at 27 ± 1°C. Actual performance values obtained on-site may vary from those quoted

## Physical Properties

Bulk density of powder:	approx. 1.3 kg/litre
Weight of fresh mortar:	approx. 2.0 kg/litre
Working time:	approx. 25 minutes
Flow life:	approx. 15 minutes
Initial Set (Vicat):	approx. 40 minutes
Final Set (Vicat):	approx. 1 hour
Compressive Strength	<ul style="list-style-type: none"> <li>• After 1 day: 4 N/mm<sup>2</sup></li> <li>• After 7 days: 12 N/mm<sup>2</sup></li> <li>• After 28 days: 14 N/mm<sup>2</sup></li> </ul>
Flexural Strength	<ul style="list-style-type: none"> <li>• After 1 day: 1.5 N/mm<sup>2</sup></li> <li>• After 7 days: 3.5 N/mm<sup>2</sup></li> </ul>
Ball Impact Hardness	• After 1 day: 6.5 mm
Scratch Hardness	• After 1 day: 1.6 mm

## Coverage Estimates

Coverage is approximately 5.5 m<sup>2</sup> @ 3 mm thickness. Note: The coverage figure is based on a flat level surface; additional material should be allowed for where the surface is rough or uneven.

## Storage and Shelf Life

SL-C13 should be stored under the same conditions as cement; store SL-C13 in cool, dry, shaded warehouses. SL-C13 should not be stored in direct contact with the floor. When stored under the correct conditions, SL-C13 will have a shelf life of 9 months.

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**Data Reliability**

All technical data provided in this document are based on laboratory tests. Actual performance may vary due to factors beyond our control.

**Regional Compliance**

Product specifications may vary based on local regulations. Please refer to the local Product Data Sheet for precise information.

**Legal Disclaimer**

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