

Carbolink's Solutions for Self Leveling Compounds

SL - C13



**Self Leveling Compounds Product  
Specifications & Technical  
Data Sheets(TDS)**

India's Most Preferred  
Construction Chemical Manufacturing Brand



**Carbolink India Pvt. Ltd.**

[WWW.CARBOLINKINDIA.COM](http://WWW.CARBOLINKINDIA.COM)



## Carbolink India Pvt. Ltd. COMPANY PROFILE



For years, Carbolink India has been the Quality Leader in offering excellent Construction Chemical Products with Supreme Quality and Reliability.

Carbolink India Manufactures Industrial Flooring(Epoxy & PU Flooring), Decorative Flooring, 3D Flooring, Waterproofing Systems, corrosion protection, wood coatings, etc. which cater specifically to the Indian climate. With manufacturing facility in India, Carbolink India manufactures and supply Materials all through the country. Carbolink's commitment to customer service and technical support is the best. We work closely with architects, structural engineers, contractors and owners to best understand their requirements. Together we develop a best solution for a construction project, adding value and becoming more than just a materials supplier, but a solution provider.

With the support of our multinational manufacturing group, Carbolink India today has support centers across the country, strategically placed to provide consistent high standards of product and service.

Our Product Range:

- Anti Corrosive Coatings
- Car Park Flooring
- Curing Compounds
- Decorative Flooring
- Floor Hardner
- Grouts & Anchors



- Industrial Flooring
- Repairing Compunds
- Sealants
- Sports Flooring
- Tiling Products
- Wood Coatings



## Self Leveling Compounds

Self Leveling Compound is a rapid setting and hardening, slump free mortar which is ideal for external or internal repairs. The mortar sets and hardens rapidly to give a repair of exceptional strength and hardness. It is ideal for the rapid repair of internal concrete, screeds, renders and concrete steps. Its other applications include forming ramps, falls and coves, patching around fittings/pipework, and filling cracks and gaps .

Carbolink manufactures a full range of world class Self Leveling Compounds systems providing the most up-to-date technologies. Carbolink India is a leader in tailored Self Leveling Compound Solutions.

Here is our Technical Description of SL - C13 :





## **SL - C13**

### **Commercial Leveling Compound**

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#### **FEATURES**

Cement-based  
Very low emission  
Produces flat and absorbent surfaces for the subsequent laying of all kind 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

#### **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 trowelled mortar with free-flowing properties is produced. The mixed mortar can be applied up to a maximum thickness of 5mm in one application but will more normally be applied at 3 - 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 for the high humidities and high ambient temperatures that are typical in tropical climates.

#### **SURFACE PREPARATION**

Restrictions:

Not suitable for exposed wearing surfaces. For internal use only.

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, etc.

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 levelling compound; a trial application is recommended to assess suitability. Do not apply SL - C13 over old residues that are softened by water.

#### **PRIMING**

CLI AT 109 Priming is mandatory especially onto very absorbent sub-floors such as concrete or cement/sand screeds. Use SL - C13 primer to seal the pores, to prevent air bubbles from rising through the applied mortar, to maintain flow life and also to promote excellent uniform adhesion to the substrate. With very smooth, dense and nonabsorbent 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 an mixing paddle with a 10mm chuck, variable speed drill ensures thorough mixing with maximum sheer yet minimum air entrapment and heat build up. The use of mixing buckets is recommended to reduce the incidence of unmixed powder around the bottom of the bucket.

Always add correctly measured water to a clean mixing bucket first; SL - C13 powder should then be added whilst stirring slowly. Mix steadily and thoroughly until a lump-free fluid mortar is produced. After approximately two minutes 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 litres 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 selfsmooth 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 5mm 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

### SL - C13

	<b>@ 27 ± 1°C</b>
Bulk density of powder	approx. 1.3kg / litre
Weight of fresh mortar	approx. 2.0kg / 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

After 1day	4 N/mm <sup>2</sup>
After 7 days	12 N/mm <sup>2</sup>
After 28 days	14 N/mm <sup>2</sup>

### Flexural Strength

After 1day	1.5 N/mm <sup>2</sup>
After 7days	3.5 N/mm <sup>2</sup>

### Ball Impact Hardness

After 1 day	6.5 mm
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### Scratch Hardness

After 1 day	1.6 mm
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## COVERAGE ESTIMATES

### Pack size

25kg	<b>Coverage</b> Approximately 5.5m <sup>2</sup> @ 3mm thickness
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**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.

## PRECAUTIONS

SL - C13 contains more than 20% cement and, therefore, in line with current legislation, is classified as irritating to eyes and skin. For this reason, the following precautions should be observed. Avoid contact with skin and eyes; in case of contact with the eyes, rinse immediately with plenty of water and seek medical advice; wear suitable gloves and keep the product out of the reach of children. Avoid generation of airborne dust during mixing.

## DISPOSAL/SPILLAGE

Spillage of any of the component products should be absorbed onto sand or other inert materials and transferred to a suitable disposable vessel. Disposal of such spillage or empty packaging should be in accordance with local waste disposal authority regulations.

**CONDITIONS OF SALE**

Sold subject to the Company's conditions of sale which are available on request.

**NOTE**

The information supplied in this datasheet is based upon extensive experience and is given in good faith in order to help you. Our Company policy is one of continuous Research and Development; we therefore reserve the right to update this information at any time without prior notice. We also guarantee the consistent high quality of our products; however as we have no control over site conditions or the execution of the work, we accept no liability for any loss or damage which may arise as a result thereof.

**India's Most Trusted  
Construction Chemical Manufacturing Brand**



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