

CL 11

Commercial grade, self-levelling compound

DESCRIPTION

CL 11 has been especially designed to produce a smooth, flat surface when applied to hard, rigid sub-floors such as cement sand screeds, concrete, etc. CL 11 contains high quality special cements and selected fillers so that, when mixed with water, it produces a free-flowing mortar with self-levelling properties. The mortar can be applied at a thickness from 3 - 5mm and suitable for internal areas only.

USES

Levelling and smoothing uneven internal sub-floors such as concrete, cement sand screed, quarry tiles, etc. prior to the installation of carpets, ceramic tiles, vinyl or parquet flooring. Not suitable for exposed wearing surfaces.

FEATURES

- Pumpable: highly fluid for fast installation
- Self-smoothing: produces flat and absorbent surface for subsequent finishes
- Walkable after 3 hours
- Ready to receive floor coverings within 48 hours

PHYSICAL PROPERTIES

CL 11	@ 27 ± 1°C
Bulk density of powder	approx. 1.3 kg/l
Weight of fresh mortar	approx. 2.0 kg/l
Working time	approx. 25 minutes
Pot life	approx. 15 minutes
Initial Set (Vicat)	approx. 40 minutes
Final Set (Vicat)	approx. 1 hour
Ball Impact Hardness	
After 1 day	6.5 mm
Scratch Hardness	
After 1 day	1.6 mm
Compressive Strength	
After 28 days min:	20 N/mm ²
Flexural Strength	
After 1 day	1.5 N/mm ²
After 7 days	3.5 N/mm ²
VOC Content	7.1 g/L

COVERAGE ESTIMATES

Pack size	Coverage
25 kg	Approx. 5 m ² @ 3 mm thick

APPLICATION INSTRUCTIONS

Surface Preparation

The substrate must be dry, hard, sound, free of dust and the barrier materials such as paint, lime coatings, plaster, curing agents, wax, polish, laitance, 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 CL 11 over old residues that are softened by water.

Priming

Porous or absorbent substrates (concrete or cement sand screeds):

Use P 51 primer to seal the pores and prevent air bubbles from rising through the applied mortar. The primer also helps to maintain flow life and promote excellent adhesion to the substrate.

Nonporous or non-absorbent substrates (quarry tiles, mosaic):

Use P 7 primer to ensure adequate adhesion of the subsequently applied CL 11.

Mixing

In a clean mixing vessel, take 5.0 - 5.5 litres of cool, clean water (additional 0.5 ltrs of water may be required if the ambient temperature is above 30°C or RH is >75). Add 25 kg of CL 11 powder to the mixing vessel and mix steadily and thoroughly until a slump-free fluid consistency is obtained. The use of mixing paddle with a 10mm chuck, ensures thorough mixing with maximum sheer yet minimum air entrapment and heat built up.

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.

For improved efficiency and continuous production, it is recommended to use at least two mixing buckets. For larger jobs, the use of a mechanical mixer/pump unit is recommended.

Application

Pour the mixed CL 11 onto the primed substrate and using a steel finishing trowel or float spread the material well within its working time. Roll the surface using a spiked roller to release all entrapped air.

Drying and Hardening

Allow the CL 11 to be air-cured. The surface will be walkable after 3 hours and ready to receive floor coverings after 48 hours (and within 7 days) at 27±1 C.

CLEANING

CL 11 can be removed from tools and equipment by washing in clean water immediately after use. Any hardened material will need to be removed mechanically.

STORAGE AND SHELF LIFE

CL 11 should be stored under the same conditions as cement; store CL 11 in cool, dry, shaded warehouses. CL 11 should not be stored in direct contact with the floor. When stored under the correct conditions CL 11 will have a shelf life of 9 months.

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PRECAUTIONS

CL 11 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 product 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.

For further information please refer to the Material Safety Data Sheet.

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.



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