

# CL 11<sup>Plus</sup>

## Levelling & Smoothing compound

### DESCRIPTION

CL 11<sup>Plus</sup> is a cost effective free flowing rapid hardening, levelling and smoothing compound designed to produce a smooth, flat surface when applied to hard, rigid sub-floors such as cement sand screeds, concrete, etc.

CL 11<sup>Plus</sup> contains high quality synthetic resins, special cements and selected fillers so that, when mixed with water, it produces a free-flowing mortar with self-levelling properties. The mixed mortar can be applied from 3 mm upto a maximum thickness of 10mm in a single application retaining its free-flowing properties to provide excellent coverage and material economy.

### USES

CL 11<sup>Plus</sup> will level and smooth in a single application uneven internal subfloors prior to the installation of floorcoverings.

CL 11<sup>Plus</sup> dries to a virtually tension-free layer and can receive floorcoverings such as vinyl, linoleum, carpet, etc.,

### FEATURES

- Economical: Applicable from 3-10 mm in a single layer without time delays
- Pumpable: highly fluid for fast installation
- Self-smoothing: produces flat and absorbent surface for subsequent finishes
- Excellent surface finish even in thinner layers
- Walkable after 3 hours
- Ready to receive floor coverings after 48 hours

### PHYSICAL PROPERTIES

CL 11<sup>Plus</sup> @ 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
Flow life	approx. 15 minutes
Initial Set (Vicat)	approx. 40 minutes
Final Set (Vicat)	approx. 1 hour
Ball Impact Hardness After 1day	6.5 mm
Scratch Hardness After 1 day	1.6 mm
Compressive Strength After 28 days (min)	20 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>
VOC Content	7.1 g/L

### COVERAGE ESTIMATES

Pack size	Coverage
25 kg	Approx. 5 m <sup>2</sup> @ 3 mm thick & 1.5m <sup>2</sup> @ 10 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<sup>Plus</sup> over old residues that are softened by water.

#### Priming

ALL SURFACES MUST BE PRIMED.

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

Use P 51<sup>Plus</sup> 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. Once the P 51<sup>Plus</sup> Primer has dried to a clear thin film the surface may be smoothed using CL 11<sup>Plus</sup>.

#### *Nonporous or non-absorbent substrates (quarry tiles, mosaic, power-floated concrete):*

P 7 primer is recommended to be applied and allowed to dry before subsequent application of CL 11<sup>Plus</sup>.

#### Mixing

In a clean mixing vessel, take 5 - 6 litres of cool, clean water . Add 25 kg of CL 11<sup>Plus</sup> powder slowly to the mixing vessel and mix steadily and thoroughly until a lump-free fluid consistency is obtained. The use of mixing paddle with a 10mm chuck, ensures thorough mixing with 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<sup>Plus</sup> 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.

It is important to protect the freshly applied material from direct sunlight or dry winds as this may cause premature surface

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drying of the material. CL 11<sup>Plus</sup> can be applied by pump up to a thickness of 10mm.

### Drying and Hardening

Allow the CL 11<sup>Plus</sup> to be air-cured. The surface will be walk able after 3 hours and ready to receive floor coverings after 48 hours.

### CLEANING

CL 11<sup>Plus</sup> 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<sup>Plus</sup> should be stored in unopened packaging, clear of the ground, in cool, dry conditions and well protected from water. When stored under the correct conditions CL 11<sup>Plus</sup> will have a shelf life of 9 months.

### PRECAUTIONS

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.



### ARDEX ENDURA (INDIA) PRIVATE LIMITED

an ISO 9001:2015 & ISO 14001:2015 certified company  
Corporate Office & Regd. Office: Unit No. 406 & 407,  
"Brigade Rubix" No. 20, HMT Campus,  
Yeshwanthpur Hobli, Bengaluru - 560013.  
CIN No: U24233KA1997PTC022383 Tel: +91 80 66746500  
Email: [customercare@ardexendura.com](mailto:customercare@ardexendura.com)  
Website: [www.ardexendura.com](http://www.ardexendura.com)

#### Branches

• AHMEDABAD	+919228019132	• GUWAHATI	+917896002188	• MUMBAI	022 65133299
• AURANGABAD	+918605445577	• HUBBALLI	0836 2970505	• MYSURU	0821 2570171
• BENGALURU	+919972922333	• HYDERABAD	+919703250099	• NAGPUR	+919822223743
• BHUBANESHWAR	0674 2578101	• INDORE	0731 4021148	• PUNE	+919881249292
• CALICUT	0495 2740334	• JAIPUR	0141 2441893	• RAIPUR	0771 4038300
• CHENNAI	044 42805544	• KOLKATA	+919831071084	• SALEM	0427 2211454
• DELHI	+9198106 03431	• LUCKNOW	0522 4043251	• TRIVANDRUM	0471 2598648
• ERNAKULAM	0484 2341044	• LUDHIANA	0161 2532170	• VIJAYAWADA	+918688354587
• GOA	0832 2750992	• MANGALURU	0824 2442176	• VISAKAPATNAM	0891 6469499