



ARDEX CL 1

Floor Levelling Compound

Fast-drying for early utilisation

No surface grinding required - readily receives adhesives

Produces floor surfaces ready to receive floor coverings in one operation

Can be pump or trowel applied

Protein-free



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SPECIFICATION CLAUSE

All indicated sub-floors will be prepared with ARDEX CL 1 self-levelling compound manufactured by ARDEX. Where applicable, a DPM of ARDEX WPM 300 Hydrepoxy shall be installed. All in accordance with the manufacturer's printed literature.

DESCRIPTION

ARDEX CL 1 is designed to produce a smooth, flat surface when applied to hard, rigid sub-floors such as sand/cement screeds, concrete, etc. The mixed mortar can be applied up to a maximum thickness of 10mm in one application but will more normally be applied at 3 - 5mm.

USE

ARDEX CL 1 should be used to level and smooth uneven internal sub-floors such as concrete, cement/sand screeds, quarry tiles, etc. prior to the installation of resilient flooring. ARDEX CL 1 has been formulated to cater for the high humidities and high ambient temperatures that are typical in tropical climates.

SURFACE PREPARATION

Ensure that 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 commercial degreaser to remove polish, wax, grease, oil and similar contaminating substances.

Where hard, firmly adhered adhesive residues are present, there should be sufficient cohesive strength to support the applied smoothing compound; a trial application is recommended to assess suitability. Do not apply ARDEX CL 1 over old residues that are softened by water.

NOTE: If the floor is damp through construction moisture or rising damp use ARDEX WPM 300 Hydrepoxy.

Restriction: Not suitable for exposed wearing surfaces. For internal use only. Direct to ground sub-floors must be protected from rising damp

using ARDEX WPM 300 hydrepoxy.

PRIMING

Priming is mandatory especially onto very absorbent subfloors such as concrete or cement/sand screeds. Use ARDEX P 51 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 non-absorbent sub-floors, it may be necessary to use ARDEX P 82 primer to ensure adequate adhesion of the subsequently applied ARDEX CL 1. See priming and preparation leaflet for guidance.

MIXING

The use of an ARDEX mixing paddle with a 10mm chuck, variable speed drill ensures thorough mixing with maximum shear yet minimum air entrapment and heat build up. The use of ARDEX 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, ARDEX CL 1 powder should be 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 residues of dry powder. Continue mixing for another minute until an even consistency is achieved.

It is not recommended to split bags of ARDEX CL 1. A 25kg bag should be mixed with a maximum of 5.5 - 6 litres of cool, clean water.

APPLICATION

Pour ARDEX CL 1 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 the working time. Apply at temperatures above 5°C.

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DRYING AND HARDENING

A 3 - 5mm layer of ARDEX CL 1 is walkable after 6 hours and ready to receive floor coverings after 48 hours at 30°C. Only in case of air humidity that is permanently higher than 90%, it can take longer time. If the thickness is between 5 - 10mm, the drying time is 72 hours before the floor covering can be done. This time is reduced at thinner applications to absorbent subfloors.

COVERAGE

Depending on the roughness and surface profile of the floor, the coverage will be approximately 5m² per 25kg bag for 3mm thickness.

PACKAGING

25kg bag.

STORAGE

ARDEX CL 1 should be stored under the same conditions as cement; store ARDEX CL 1 in cool, dry shaded warehouses. ARDEX CL 1 should not be stored in direct contact with the floor. When stored under the correct conditions, ARDEX CL 1 will have a shelf life of 6 months.

SAFETY PRECAUTIONS

This product may cause irritation and an allergic reaction to the skin. It may cause serious eye injury and irritation to the respiratory system. In case of contact with the eyes rinse with running water (15mins) including removal of contaminated clothing. Wear protective gloves, clothing, eye and face protection. Avoid inhaling dust /fume /gas / mist /vapours /spray. Ensure adequate ventilation during mixing and application. Store locked up. Check with your local Council regarding the disposal of contents. Keep out of the reach of children. Additional information is in the Material Safety Data Sheet (MSDS) at www.ardex.com.sg.

TECHNICAL DATA

Bulk density of powder:	approx. 1.2 kg/litre
Weight of fresh mortar:	approx. 2.2 kg/litre
Working time at 30°C:	approx. 20 minutes
Flow life at 30°C:	approx. 5 minutes

Initial set (Vicat):	approx. 70 minutes
Final Set (Vicat):	approx. 110 minutes
Walkability time:	6 hrs at 30°C, 50% RH
Compressive Strength (EN 196, 23°C)	
24 hours:	≥ 6 N/mm ²
7 days:	≥ 15 N/mm ²
28 days:	≥ 26 N/mm ²
Flexural Strength (EN 196, 23°C)	
After 1 day	≥ 1 N/mm ²
After 7 days:	≥ 3 N/mm ²
After 28 days:	≥ 5 N/mm ²

DISCLAIMER

The technical datasheets are based on the latest information and given in good faith and represent to best of our knowledge and experience at the time of printing. They are primarily offered for user's consideration and evaluation. It is the responsibility of the user to conduct their own tests to validate the suitability of the products.

It is also the responsibility of the user to ensure that the products are used and handled correctly and in accordance with any applicable standards, the product instructions and recommendations and only for the uses they are intended. As we have no control over site conditions and the execution of the work, we accept no liability for any loss or damage which may rise as a result thereof. We also reserve the right to update the information at any time without prior notice to you to reflect our ongoing research and development.

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