



ARDEX CL 11

Commercial Smoothing and Levelling Compound

Fast drying for early utilisation

Durable – excellent surface hardness

No surface grinding required – readily receives adhesives

Produces floor surface ready to receive floor covering in one operation

Can be pump or trowel applied

Higher compressive strength formulation



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SPECIFICATION CLAUSE

All indicated sub-floors will be prepared with **ARDEX CL11** 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 11 has been especially designed to produce a smooth, flat surface when applied to hard, rigid sub-floors such as sand/cement screeds, concrete, etc

ARDEX CL11 contains high quality synthetic resins, 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 10 mm in one application or 20mm in two applications but will more normally be applied at 3 -10mm. For smoothing applications ARDEX CL11 can be applied at minimum 1.5mm.

USE

ARDEX CL11 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.

ARDEX CL11 has been formulated to cater for the high humidities and high ambient temperature that are typical in tropical climates.

SURFACE PREPARATION

Restrictions:

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.

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 material, etc. Use commercial degreaser to remove polish, wax, grease, oil and similar contaminating substances.

When hard, firmly adhered adhesive residues are present they should be of sufficient cohesive strength to support the applied smoothing compound; a trial application is recommended to assess suitability. Do not apply ARDEX CL11 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.

PRIMING

Priming is mandatory especially onto very absorbent sub-floors such as concrete or cement/s and screeds. Use ARDEX P51 primer to seal the pores, to prevent air bubbles from rising through the applied mortar, to maintain floor 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 P82 primer to ensure adequate adhesion of the subsequently applied ARDEX CL11.

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 CL11 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 ARDEX CL11; a 25 kg bag should be mixed with a maximum of 6 litres of cool, clean water.

APPLICATION

Pour ARDEX CL11 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 15 minutes of its 20 minutes working time. A 5mm layer of ARDEX CL11 will be walkable after approximately 3 hours at 30°C; this time is extended at lower and reduces at higher temperatures. This time is also reduced where thinner applications are applied to absorbent sub-floors. Apply at surface temperatures of 5°-35°C.

DRYING AND HARDENING

A 5mm layer of ARDEX CL11 is walkable after 3 hours and ready to receive floor coverings after 24 hrs at

30°C. In case of air humidity and low temperature, it can take longer time to dry and may take up to 48hrs before floor coverings being installed.

COVERAGE

Approximately 1.5kg ARDEX CL11 powder/m²/mm, e.g. one 25kg bag will cover approximately 5.55m² at 3mm thickness.

PACKAGING

ARDEX CL11 is packed in paper sack incorporating a polyethylene liner- net weight 25 kg.

STORAGE

ARDEX CL11 should be stored under the same conditions as cement; store ARDEX CL11 in cool, dry shaded warehouses. ARDEX CL11 should not be stored in direct contact with the floor. When stored under the correct conditions ARDEX CL11 will have a shelf life of 6 months.

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PRECAUTIONS

ARDEX 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.

TECHNICAL DATA

Bulk density of powder	approx. 1.0kg/litre
Weight of fresh mortar	approx. 2.0kg/litre
Working time at 30 °C	approx. 20 minutes
Flow life at 30 °C	approx. 15 minutes
Initial Set (Vicat)	approx. 40 minutes
Final Set (Vicat)	approx. 1 hour

Compressive Strength (DN 1164)

After 1 day	approx. 6 N/mm ²
After 7 days	approx. 22 N/mm ²
After 28 days	approx. 30 N/mm ²

Tensile Bending Strength (DN 1164)

After 1 day	approx. 1.5 N/mm ²
After 7 days	approx. 4 N/mm ²
After 28 days	approx. 6 N/mm ²

Ball Pressure Hardness (Brinell)

After 1 day	approx. 30.0 N/mm ²
After 7 days	approx. 79.0 N/mm ²
After 28 days	approx. 93.0 N/mm ²

DISCLAIMER

The technical datasheets are based on the latest information and given in good faith and represent the 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 program.

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