



ARDEX K 250

Levelling Compound

Economical – Skim floors from 1mm

Easy to use – Superior flow for minimal trowel effort

Universal – Suitable for most floor coverings

Versatile – Apply in one application to 25mm

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ARDEX K 250

Levelling Compound

DESCRIPTION

ARDEX K 250 is an advanced cement and polymer based levelling compound. ARDEX K 250 is formulated for construction contractors to level new and existing concrete substrates in large commercial and retail areas to project specification.

SUBSTRATES

ARDEX K 250 is designed for levelling internal dry concrete slabs.

SURFACE PREPARATION

Concrete floors must be solid, clean and free of wax, grease, asphalt, latex compounds, curing and sealing compounds and any other surface contaminant.

Mechanically prepare the floor using recommended preparation methods such as shotblasting, scarifying, diamond grinding, shaving or other suitable methods to provide a roughened, clean, sound, solid and open porous surface.

Acid etching is not an acceptable method of cleaning the subfloor. Do not use solvents or sweeping compounds.

Subfloors must be dry (AS 1884) and properly primed for successful installation. Subfloor temperatures must be a minimum of 10°C.

For high strength, burnished, and polished concrete contact ARDEX Technical Services.

PRIMING

Use ARDEX P 51 over standard concrete floors prior to the installation of ARDEX levelling compounds. Mix 1 part ARDEX P 51 with 2 parts water and apply evenly using a push broom. Do not use paint rollers, mops, or spray equipment. Do not leave any bare spots. Brush off all puddles of excess primer. Allow to dry to a thin, clear film (min. 3 hours, max. 24 hours). Very absorbent concrete may require two applications of primer to avoid pinholes and bubbling in the levelling compound. In such cases, make the initial coat 1 part ARDEX P 51 diluted with 3 parts water. Allow to dry and install a second coat of 1 part ARDEX P 51 diluted with 1 part water. Allow to dry to a thin, clear film (min. 3 hours, max. 24 hours).

Note: Low subfloor temperatures and/or high ambient humidity require longer drying time for ARDEX primers. Do not install levelling compounds until primers have dried thoroughly.

MIXING RATIO

4.5 litres of water to 20 kg or ARDEX K 250.

MIXING

ARDEX floor levelling products react and harden very quickly when mixed with water. Thorough mixing in the shortest time is essential to ensure the powder and water are evenly dispersed throughout the mix to obtain a lump-free mortar. Always mix the powder into the water. Concrete mixers and hand mixing are not suitable methods.

The most efficient method of mixing is by using an ARDEX mixing paddle and a heavy-duty electric drill (650 rpm). Normal mixing time of a 20 kg bag using an electric drill or paddle is 2 to 3 minutes.

To 4.5 litres of water, add the ARDEX K 250 (20 kg) whilst mixing thoroughly. Normal mixing time of a 20 kg bag is 2 to 3 minutes. Do not overwater.

MANUAL INSTALLATION

Pour the mixed ARDEX K 250 onto the prepared subfloor. Wear football boots with rubber or nylon studs to avoid leaving unnecessary marks in the liquid ARDEX K 250. Spread into place using the ARDEX gauging rake with height adjustment to obtain an even thickness. Use the ARDEX stand-up spreader for smoothing and where necessary the ARDEX hand trowel.

Do not rework ARDEX K 250 after 10 minutes.

PUMPING INSTALLATION

For ease and efficiency of application ARDEX K 250 can be pumped using a suitable Automatic Mixing Pump. Follow the instructions as set by the pump manufacturer.

THICKNESS

ARDEX K 250 can be applied from 1mm to 25mm in one application.

BULKFILL APPLICATION

To increase economy, ARDEX K 250 can be mixed with a well washed and dried 2-5mm aggregate for applications of 10mm to 50mm. A maximum ratio by weight of aggregate to ARDEX K 250 powder shall be 1:1. First mix ARDEX K 250 powder with 4.2L of water, continue mixing while adding aggregate gradually until the aggregate is thoroughly and evenly mixed.

Note: Adding aggregate will modify the flow and consequently the smoothing and self levelling properties of ARDEX K 250. Where required, use neat application of ARDEX K 250 or skim with ARDEX FEATHER FINISH prior to installation of floor coverings.

COVERAGE

Approximately 1.7 kg powder/mm/m². A 20 kg bag will cover approximately 4m² at 3mm thickness.

DRYING-HARDENING

ARDEX K 250 sets by hydration. A 5mm layer will harden after approximately 3 hours at 23°C and can be walked on after this time.

Hardening and drying time will be extended in cooler climates, and shortened in warmer climates. Thicker layers will also extend drying times.

ARDEX K 250 is ready for floor coverings in 48 hours when applied in layers of 10 mm or less.

TECHNICAL DATA

Powder bulk density: 1.3 kg/litre
Mixed mortar density: 2.0 kg/litre

Compressive Strength

After 1 day	approx 11 MPa
After 3 days	approx 25 MPa
After 7 days	approx 27 MPa
After 28 days	approx 37 MPa

Tensile Bending Strength

After 1 day	approx 3 MPa
After 3 days	approx 4 MPa
After 7 days	approx 6 MPa
After 28 days	approx 8 MPa

STORAGE

ARDEX K 250 has a shelf life of approx 12 months if stored in dry conditions in unopened packaging.

HEALTH AND SAFETY

ARDEX K 250 contains Portland cement and Quartz sand. Avoid generation of dust. Do not inhale dust. Avoid contact with eyes or skin. Wear suitable protective gloves and safety glasses. In case of contact with eyes, rinse opened eye for several minutes under running water. In case of contact with skin, rinse affected areas thoroughly with running water. If dust is inhaled, remove to fresh air, ensure breathing passages are clear and rinse mouth with running water. If symptoms persist, seek medical advice.

GUARANTEE

ARDEX products are generally warranted for 10 years when installed to relevant Australian Standards and applicable ARDEX specification, technical data sheet and instruction for application and use. While we assure customers the high standard and quality of our products and services, we accept no liability for any loss or damage which arises from particular site conditions, poor handling and storage or installation by unqualified and unskilled applicators.

DISCLAIMER

The technical details, recommendations and other information contained in this data sheet are given in good faith and represent best of our knowledge and experience at the time of printing. It is your responsibility to ensure that our products are used and handled correctly and in accordance with any applicable Australian Standard, our instructions are recommendations and only for the uses they are intended. We also reserve the right to update information without prior notice to you to reflect our ongoing research and development program.

Country specific recommendations, depending on local standards, codes of practice building regulations or industry guidelines may effect specific installation recommendations.

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