



ARDEX K005

Bulk Fill Levelling Compound

Economical – Ideal for levelling up to 120mm thick

Easy to install - Engineered for controlled flow

Strong - Suitable for heavy duty traffic

Compatible with other ARDEX levelling products such as ARDEX K 15

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ARDEX K005

Bulk Fill Levelling Compound

PRODUCT DESCRIPTION

ARDEX K005 is a cement based underlayment for levelling subfloors prior to the application of a floor finish. Designed with a coarse sand aggregate and minimal flow for the easy and efficient installations of thick layers. It can also be used as a fast set screed when the water mixing ratio is reduced.

SUBSTRATES

ARDEX K005 is designed for levelling and adjusting tolerances on internal concrete slabs. For other substrates such as timber, ceramic, terrazzo, steel decking or external applications contact ARDEX technical services for detailed information on these procedures with other products.

SURFACE PREPARATION

Concrete floors must be solid, clean and free of wax, grease, asphalt, latex compounds, curing and sealing compounds and any other surface contaminants. Mechanically clean the floor using recommended preparation methods such as shot-blasting, 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 further information, contact ARDEX technical services.

PRIMING

Use ARDEX P51 over standard concrete floors prior to the installation of ARDEX levelling compounds. Mix 1 part ARDEX P51 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 P51 diluted with 3 parts water. Allow to dry and install a second coat of 1 part ARDEX P51 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

Use 2.7 liters of water to 20 kg of ARDEX K 005 powder when used as a leveller, or when used as a fast set screed use 2.3 liters of water with 20kg of powder.

MIXING

ARDEX floor levelling products react and harden quickly when mixed with water. Thorough mixing in the shortest possible time is essential to ensure a lump free mortar. Always mix the powder into the water. 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 is 1 to 2 minutes. Concrete mixers and hand mixing are not suitable methods of mixing. To the required volume of water, add the ARDEX K 005 (20 kg) whilst mixing thoroughly. Do not overwater.

MANUAL INSTALLATION

Pour the mixed ARDEX K 005 onto the prepared subfloor and spread into place using the ARDEX stand-up spreader or ARDEX hand trowel. Use the ARDEX gauging tool with height adjustment to obtain an even thickness. Use the ARDEX smoother for smoothing and touch up. ARDEX K 005 has a working time of approximately 10 minutes.

PUMPING INSTALLATION

For ease and efficiency of application ARDEX K 005 can be pumped using a suitable Automatic Mixing Pump. Follow the instructions as set by the pump manufacturer.

Contact ARDEX technical services for further information.

THICKNESS

ARDEX K 005 can be applied from 10mm to 120 mm thickness in one application.

COVERAGE

Approximately 1.9 kg of fresh mortar will cover 1 m² at 1mm thick. A 20kg bag when used with 2.9 liters of water will cover 1.1m² at 10mm thick.

DRYING-HARDENING

ARDEX K 005 sets by hydration. A 120mm layer will harden after approximately 4 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.

TECHNICAL DATA

Powder bulk density: 1.5 kg/L

Weight of fresh mortar: 2.2 kg/L

Compressive Strength:

After 1 day 14 MPa

After 3 days 16 MPa

After 7 days 27 MPa

Tensile Bending Strength:

After 1 day 5 MPa

After 3 days 6 MPa

After 28 days 10 MPa

STORAGE

ARDEX K 005 has a shelf life of approx 12 months if stored in dry conditions in unopened packaging.

HEALTH AND SAFETY

ARDEX K 005 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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