



ARDEX K 301

Exterior Levelling & Smoothing Compound

Quick Drying - Walkable after only 2-3 hours

Easy to install - 2mm to 20mm in one application

Versatile - Can be hand mixed or pump applied

Suitable for interior and exterior applications

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ARDEX K 301

Exterior Levelling & Smoothing Compound

DESCRIPTION

ARDEX K 301 is a levelling and smoothing compound for repairing and resurfacing internal and external concrete floors and sand/cement screeds. It can be used for filling, smoothing and levelling subfloors prior to coating, or installing tiles or other suitable floorcoverings. ARDEX K 301 can also be used as a wear surface in workshops, domestic garages, storage areas, light commercial areas, courtyards and footpaths.

SUBSTRATES

ARDEX K 301 can be applied internally or externally, directly to dry or moist substrates provided they are set and hardened.

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 clean 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 1884-1985) and properly primed for successful installation. Subfloor temperatures must be a minimum of 10°C. For further information, contact ARDEX technical services.

PRIMING

Priming is not generally required for these types of surfaces, unless they are extremely porous, in which case prime with ARDEX P51. Mix 1 part ARDEX 51 with 1 part water and apply evenly using a brush. 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).

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

5 litres of water to 25 kg of K 301 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 2 to 3 minutes. Concrete mixers and hand mixing are not suitable methods of mixing. To 5 litres of water, add the ARDEX K 301 (25 kg) whilst mixing thoroughly. Do not overwater.

MANUAL INSTALLATION

Pour the mixed ARDEX K 301 onto the prepared subfloor. If subfloor has not been primed, apply material in a thin layer and work into the surface, then apply further material to the required thickness. Spread in place using the ARDEX stand-up spreader or ARDEX hand trowel. Use the ARDEX gauging tool with height adjustment to obtain an even thickness. Do not rework the ARDEX K 301 after 20 - 30 minutes working time. Wear football boots with rubber or nylon studs to avoid leaving marks in the liquid ARDEX K 301. If floorcoverings are to be installed, ARDEX K 301 must be left for 24 hours. If the product is to be coated, it should be left for 2 days up to 5mm, 5 days up to 10mm and 7 days up to 20mm. These times will be shorter in warm conditions and longer in cooler conditions. Note: Exterior installations must be protected from direct sunlight and draughts which could lead to accelerated drying of the surface.

PUMPING INSTALLATION

For ease and efficiency of application in large areas, ARDEX K 301 can be pumped with a Levelcraft Automatic Mixing Pump. Contact ARDEX technical services for detailed information on pumping.

THICKNESS

ARDEX K 301 can be applied from 2mm to 20mm in one application.

DRYING TIME

Allow approximately 2-3 hours at 20°C, before foot traffic. Conventionally laid carpet and floating floors can be installed after 24 hours. Direct stick applications and vinyl flooring after 48 hours. Higher temperatures will reduce the drying time, whilst lower temperatures will extend drying time.

COVERAGE

Approximately 1.6 kg powder/mm/m². A 25kg bag will cover approximately 8m² at 2mm thickness.

TECHNICAL DATA

Bulk density of powder - 1.4 kg/L

Weight of fresh mortar - 1.9 kg/L

Compressive Strength

After 1 days - 8 MPa

After 7 days - 20 MPa

After 28 days - 30 MPa

Tensile Bending Strength

After 1 days - 2 MPa

After 7 days - 4 MPa

After 28 days - 7 MPa

STORAGE

ARDEX K 301 has a shelf life of 12 months if stored in dry conditions in unopened packaging.

HEALTH & SAFETY

ARDEX K 301 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 effected 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. Material Safety Data Sheets are available on request.

TOLL FREE TECHNICAL SERVICES:

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NOTE

ARDEX products are generally warranted for 10 years when installed to the 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.

ARDEX products are manufactured in Australia.

ARDEX AUSTRALIA Pty Ltd.

- ABN 82 000 550 005



Materials are also manufactured in Austria, Denmark, United Kingdom, France, Germany, Singapore, Spain, USA and represented throughout the world.

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