



ARDEX K 125

Smoothing & Levelling Compound

Fast drying, economical levelling compound

2.5mm to 15mm in one application

Suitable for residential and commercial applications

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DESCRIPTION

ARDEX K 125 is a levelling and smoothing compound designed to level and smooth internal sub-floors prior to applying floor finishes. It is a fast drying, high-performance compound that is easy to use and dries to a smooth, even finish. K 125 is suitable for a variety of substrates, making it a reliable choice for levelling and smoothing sub-floors.

SUBSTRATES

ARDEX K 125 is designed to be installed over internal concrete substrates as well as ARDEX A 38, ARDEX A 48 and ARDEX K 900 BF.

It is not recommended for use over timber, steel decking, or subfloors subject to vibration. For more information on these types of installations, please contact ARDEX Technical Services

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. To prepare the concrete floor, mechanically clean it using shot blasting, scarifying, diamond grinding, shaving, or other suitable methods to create a roughened, clean, sound, solid, and open porous surface. Acid etching is not an acceptable method for cleaning the sub floor. Do not use solvents or sweeping compounds.

The sub floor must be dry (AS 1884) and primed properly for successful installation.

Where a sub floor vapour barrier is incomplete or missing, contact ARDEX Technical Services.

The sub floor temperature must be at least 10°C. For more information, contact ARDEX Technical Services.

Non-porous floors, such as terrazzo, ceramic and quarry tiles, and epoxy coatings: must be solid, well bonded and properly cleaned and primed with ARDEX P 82 or ARDEX P 9 Primer.

For power-trowelled (burnished) concrete and high strength concrete greater than 35 MPa, contact ARDEX Technical Services for further information on surfaces preparation.

Steel decking - Refer to ARDEX Technical Services.

NOTE: This product is intended for interior use over dry substrates only. Do not use in areas of constant water exposure or in areas exposed to permanent or intermittent substrate moisture, as this may jeopardize the performance of the underlayment and the floor coverings.

PRIMING

Porous Substrates

To prepare standard concrete floors for the installation of ARDEX levelling compounds, apply ARDEX P 51 primer.

Mix 1 part ARDEX P 51 with 2 parts water and apply evenly with a bristle broom. Do not use paint rollers, mops, or spray equipment. Do not leave any bare spots. Brush off any puddles of excess primer. Allow the primer to dry to a thin, clear film for at least 3 hours and up to 24 hours.

For very absorbent concrete, two applications of primer may be required to avoid pinholes and bubbling in the levelling compound. In these cases, make the initial coat 1 part ARDEX P 51 diluted with 3 parts water. Allow the primer to dry and then apply a second coat of 1 part ARDEX P 51 diluted with 1 part water. Allow the primer to dry to a thin, clear film for at least 3 hours and up to 24 hours.

Non-Porous Substrates

ARDEX P 9 is diluted with water 1:1 by volume and apply with a brush or roller with applications of leveller able to take place after approximately 20 minutes at 23°C and 50% relative humidity. Ensure ARDEX P 9 single part primer is fully dry prior to the application of the leveller compound.

ARDEX P 82 is mixed part A (red) with part B (white) and apply with a short-nap or sponge paint roller. Leave a thin, transparent pink coat of primer no heavier than a coat of paint. Do not leave any bare spots. Roll off any areas of excess primer. Allow the primer to dry to a thin, slightly tacky film for at least 3 hours and up to 24 hours.

DAMP OR GREEN CONCRETE

When the concrete substrate moisture content is measured at greater than 80% relative humidity (ASTM F2170) or exceeds 15g/m²/24hrs (ASTM F1869) when tested in accordance with AS 1884.

Option 1 - ARDEX WPM 300

A single coat of ARDEX WPM 300 applied at 3m²/ litre will act as a moisture stop for green concrete not subject to rising damp or permanent moisture. To make ready for a levelling compound, ARDEX Primer Sand should be broadcast over the wet ARDEX WPM 300 as per the technical data sheet. Let cure overnight prior to removing the excess sand.

Option 2 - ARDEX WPM 368

A single coat of ARDEX WPM 368 applied at 3m²/ litre per coat acts as a moisture stop for 'green concrete' not subject to rising damp or permanent moisture. The ARDEX levelling compound can be applied directly onto the cured WPM 368 without the need of primer

Where rising damp is present or concrete moisture exceeds 90% RH, consult ARDEX technical bulletin 192 - Smoothing Cement - Moisture Barrier Systems or contact ARDEX Technical Services (1300 788 780)

MIXING RATIO

The mixing ratio for ARDEX K 125 is 4.5 litres of water to 20kg of powder.

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When used in conjunction with ARDEX P 82 or high stress areas (e.g. under floor heating) mix 1.6 litres of ARDEX E 25 with 3.5 litres of water per 20kg bag of ARDEX K 125 - Refer to ARDEX technical bulletin TB151.

MIXING ARDEX

Floor levelling products react and harden quickly when mixed with water. It is essential to mix the powder into the water thoroughly and quickly to ensure a lumpfree mortar. The most efficient method of mixing is to use an ARDEX mixing paddle and a heavy duty electric drill (650rpm). The normal mixing time for a 20kg bag is 2 to 3 minutes. Concrete mixers and hand mixing are not suitable methods of mixing.

MANUAL INSTALLATION

After mixing ARDEX K 125, pour it onto the prepared subfloor and spread it using an ARDEX stand-up spreader or ARDEX hand trowel. Use an ARDEX gauging tool with height adjustment to achieve an even thickness. Use an ARDEX smoother for smoothing, feathering, and touch-ups. Do not rework ARDEX K 125 after 10 minutes. Wear football boots with rubber or nylon studs to avoid leaving marks in the liquid ARDEX K 125.

PUMPING INSTALLATION

For ease and efficiency of application ARDEX K 125 can be pumped. To ensure compatibility, contact ARDEX Technical Services for guidance and check the suitability from the pump manufacturer.

DRYING-HARDENING

Drying time is dependent on jobsite temperature, humidity, installation thickness and floor covering type (Based on 23°C and 50% RH).

Walkable from 4 hours
Ready for tiles from 4 hours
Ready for floor coverings from 18 hours

Always comply with floor covering manufacturer's moisture instructions. Higher temperatures will reduce the setting hardening and drying times, whilst lower temperatures will extend drying times.

THICKNESS

ARDEX K 125 can be applied from 2.5 – 15mm in one application without aggregate.

For areas requiring a thickness over 15mm to a maximum of 25mm, ARDEX K 125 must be mixed with ARDEX aggregate mix. First mix ARDEX K 125 with water, then add the aggregate in equal volume to mixed mortar whilst mixing.

COVERAGE

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

SHELF LIFE

ARDEX K125 has a shelf life of 12 months when stored in the original unopened packaging, in a dry place at 23°C and 50% relative humidity.

TECHNICAL PROPERTIES

Mix ratio	4.5L per 20 kg bag
Colour	Grey
Bulk density of powder	Approx. 1.2kg / litre
Coverage	4m ² at 3mm
Weight of fresh mortar	2.0kg / litre

COMPRESSIVE STRENGTH

After 1 day	Approx. 14 MPa
After 7 days	Approx. 23 MPa
After 28 days	Approx. 30 MPa

FLEXURAL STRENGTH

After 1 day	Approx. 4 MPa
After 7 days	Approx. 6 MPa
After 28 days	Approx. 8 MPa

PACKAGING

ARDEX K 125 is packed in polylined paper sacks - net weight 20 kg.

SAFETY DATA

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. May cause respiratory irritation. Suspected of causing genetic defects. Causes damage to organs through prolonged or repeated exposure. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/attention. Immediately call a POISON CENTER/doctor/physician/first aider. IF ON SKIN: Wash with plenty of water and soap. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Additional information is in the Safety Data Sheet (SDS) at ardexaustralia.com

GUARANTEE

ARDEX Australia Pty Ltd ("we" or "us") guarantees this product ("our goods") is free from manufacturing defects and will perform

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to any applicable specification published by us for 10 years from the date of purchase. Our liability under this guarantee is limited at our option to replacement of the product, repair of any damage to the immediate surface or area of application of the product, or compensation, in each case if we are satisfied loss or damage was due to a breach of this guarantee. This guarantee does not apply if damage or loss is due to failure to follow published instructions or any act or circumstance beyond our control, including shade variations and efflorescence. If you wish to make a claim under this guarantee you must notify us (ARDEX Australia Pty Ltd, 2 Buda Way, Kempas Creek, NSW 2178; Toll Free: 1800 224 070; Email: technicalservices@ardexaustralia.com) and provide evidence of your purchase of the product within 30 days of any alleged loss or damage occurring. We reserve the right to ask you for satisfactory evidence of any alleged loss or damage. Any claim under this guarantee is at your cost. This guarantee is in addition to any rights or remedies you may have as a "consumer" under the Australian Consumer Law and to that extent you need to be aware that: "Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure".

DISCLAIMER

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