



ARDEX K125

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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ARDEX K125

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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. K125 is suitable for a variety of substrates, making it a reliable choice for levelling and smoothing sub-floors

SUBSTRATES

ARDEX K125 is designed to be installed over internal new and existing dry concrete substrates as well as ARDEX A38, ARDEX A48 and ARDEX K900BF

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 subfloor. Do not use solvents or sweeping compounds.

The subfloor must be dry (AS 1884) and primed properly for successful installation. The subfloor temperature must be at least 10°C. For more information, contact ARDEX Technical Services.

PRIMING

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.

DAMP OR GREEN CONCRETE

When a concrete substrate moisture content is measured at greater than 80% relative humidity (ASTM F2170) or exceeds 15gm/m²/24hrs (ASTM F1869) when tested in accordance with AS 1884, ARDEX WPM 300 (HydrEpoxy) shall be considered as the nominated primer. This is typically equivalent to 5% or greater moisture content from a digital non-destructive moisture meter, however Australian Standards must be followed.

Prime with ARDEX WPM300 and broadcast sand. Apply one coat of ARDEX WPM300 by roller at 3m² /litre. Whilst ARDEX WPM300 is still wet broadcast 0.5mm clean dry sand over the surface at ~700gms/m². Cure overnight and broom and vacuum excess sand off. Apply smoothing cement. NOTE: Low subfloor temperatures and / or high ambient humidity require longer drying time for ARDEX primers.

Dilute Ardex P9 single part primer 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 P9 single part primer is fully dry prior to the application leveller.

For non-porous substrates, use ARDEX P 82 primer. Mix 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.

ARDEX P 82 must be applied in a thin layer within 1 hour of mixing. Refer to the Mixing Ratio section for adjustment of mix design when using ARDEX P 82 under ARDEX K 125.

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

MIXING RATIO

The mixing ratio for ARDEX K 125 is 4.5 litres of water to 20 kg of powder. When used in conjunction with ARDEX P 82 and for high stress areas, the mixing ratio changes to 1.25 litres of ARDEX E 25 with 3.75 litres of water per 20 kg bag of ARDEX K 125.

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 lump-free 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.

The mixing ratio of ARDEX K125 is 4.5 litres of water to 20kg of powder

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.

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PUMPING INSTALLATION

For ease and efficiency of application ARDEX K125 can be pumped using an ARDEX approved mixing pump.

SPECIAL APPLICATIONS

ARDEX K 125 can be used over heated subfloors. For this application, mix ARDEX K 125 with 3.5 litres of water and 1.6 litres of ARDEX E 25 resilient emulsion. Contact ARDEX Technical Services for more information on these types of applications.

For areas subject to heavy traffic and heavy loads, such as supermarkets, longer curing times are required before the floor is subjected to highly loaded trolleys. At 23°C, it is recommended that 7 days of curing are allowed before heavy loads are applied. Lower temperatures may extend this time. ARDEX E 25 can also be used to increase the strength and resilience of the levelling compound.

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 a well washed and dried 2 – 5mm aggregate. Mix ARDEX K 125 with water first 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

Mixing Ratio	4.5L per 2kg bag
Colour	Grey
Bulk Density of Powder	Approx 1.2kg/L
Coverage	4m ² at 3mm
Weight of Fresh Mortar	2.0kg/L

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

20kg polylined paper bag

SAFETY DATA

This product causes skin irritation and may cause an allergic skin reaction. It may cause respiratory irritation and causes serious eye injury. In case of contact with the eyes rinse with running water until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. This product may cause damage to organs through prolonged or repeated exposure and suspected of causing genetic defects. Wear protective gloves, clothing, eye, and face protection. Avoid inhaling dust/fumes/gas/mist/vapours/spray. Ensure adequate ventilation during mixing and application. Store locked up. Check with your local Council regarding the disposal of contents, dispose of packaging thoughtfully and recycle where possible. Keep out of the reach of children.

Call the Poisons Information Centre on 131 126 (AUS) and 0800 764 766 (NZ) or call a doctor if you feel unwell. Additional information is in the Safety Data Sheet (SDS) at ardexaustralia.com

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GUARANTEE

ARDEX Australia Pty Ltd (“we” or “us”) guarantees this product (“our goods”) is free from manufacturing defects and will perform 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, 20 Powers Road Seven Hills NSW 2147; 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 of 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

The technical details, recommendations and other information contained in this data sheet are given in good faith and represent the best of our knowledge and experience at the time of printing. It is your responsibility to ensure our products are used and handled correctly and in accordance with any applicable Australian Standards. Our instructions and recommendations are 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 affect specific installation recommendations. The supply of our products and services is also subject to certain terms, warranties and exclusions, which may have already been disclosed to you in prior dealings or are otherwise available to you on request. You should make yourself familiar with them.

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