



ARDEX LQ 150

Cement Based Levelling Compound

Quick Drying - Walkable in 2 - 3 hours

2.5mm to 10mm in one application

Versatile - Suitable for multiple substrates and underfloor heating

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DESCRIPTION

ARDEX LQ150 Levelling Compound is a high-quality, fast-setting internal levelling compound that is specifically designed for use with tiles. It is easy to use and can be applied to a variety of substrates, including concrete, screeds, and existing tiles.

SUBSTRATES

ARDEX LQ150 is a cement-based levelling compound that is used to create a smooth, level surface for tiling over uneven concrete floors. It is suitable for use in internal areas and can be used with underfloor heating.

SURFACE PREPARATION

Concrete must be clean, sound, and free of all contaminants, such as paint, wax, curing compounds, and oil. New concrete should be at least 4 weeks old. Laitance should be removed by mechanical means, followed by vacuuming to ensure that all loose particles are removed.

On-ground concrete slabs must be protected against rising damp. This can be done by using a plastic sheet below the concrete, or by applying a moisture barrier such as ARDEX WPM300 to the concrete substrate. Sand should be broadcast over the second coat of the moisture barrier.

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.

Option1 - 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.

Option 2 - ARDEX WPM368 can be applied as a moisture barrier. Two coats are applied at 3m²/litre or WFT of 0.3mm

per coat. A single coat of ARDEX WPM368 applied at 3m²/litre per coat acts as a moisture stop for 'green concrete' not subject to rising damp or permanent moisture. Broadcast sand is not required.

NON-POROUS SUBSTRATES

Option1 - 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.

Option 2 - Using ARDEX P82 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 Multiprime can be applied using a brush or roll covering the entire surface to be sealed. For very porous substrates, a second coat is required. Ardex multiprime must be dry prior to application of subsequent products. ARDEX Multiprime will dry in approximately 15-30 minutes at 25°C and 50% relative humidity.

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 LQ150 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 LQ150

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.

MANUAL INSTALLATION

After mixing ARDEX LQ 150, pour it onto the prepared subfloor. Spread the compound using an ARDEX stand-up spreader or ARDEX hand trowel. Smooth the surface with an ARDEX smoother. Do not rework ARDEX LQ 150 after 10 minutes. Wear football boots with rubber or nylon studs to avoid leaving marks in the liquid ARDEX LQ 150.

PUMPING INSTALLATION

For ease and efficiency of application ARDEX LQ150 can be pumped using an ARDEX approved mixing pump.

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SPECIAL APPLICATIONS

ARDEX LQ150 can be used over heated subfloors. For this application, mix ARDEX LQ150 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.

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 2-3 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 LQ150 can be applied in one coat in thicknesses from 2.5 mm to 10 mm without aggregate. For areas that require a thickness of more than 10 mm up to a maximum of 20 mm, it is recommended to use the ARDEX LQ92.

COVERAGE

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

SHELF LIFE

ARDEX LQ150 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
Application Temperature	10°C to 35°C
Working Time (+23°C)	10 mins
Tile Over After (+23°C)	2 - 3 Hrs

COMPRESSIVE STRENGTH

After 1 day	Approx 12 MPa
After 7 days	Approx 23 MPa
After 28 days	Approx 30 MPa

FLEXURAL STRENGTH

After 1 day	Approx 3 MPa
After 7 days	Approx 5 MPa
After 28 days	Approx 7 MPa

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

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