



ARDEX LQ 150

Cement Based Levelling Compound

Quick Drying - Walkable in 2 - 3 hours

2.5mm to 15mm 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 once dry is suitable for the application of vinyl, carpet and tile floor finishes. It is easy to use and can be applied to a variety of substrates,

Substrates with special requirements such as moisture vulnerable concrete, compressed fibre cement flooring, terrazzo, quarry and ceramic tiles, contact ARDEX Technical Services.

SUBSTRATES

ARDEX LQ150 is designed to be installed over internal 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 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. 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.

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, Prime the prepared concrete surface with ARDEX Multiprime using a brush or soft broom. Allow primer to touch dry prior to application of the levelling compound. If the substrate is extremely porous, 2 coats of primer may be required to prevent the formation of bubbles or pinholes in the ARDEX LQ150. Allow the first coat of primer to dry prior to the application of the second coat. ARDEX Multiprime will dry in approximately 15-30 minutes at 25°C and 50% relative humidity.

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, an ARDEX Moisture barrier system should be used. 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.

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. To ensure compatibility, contact ARDEX Technical Services for guidance and check the suitability from the pump manufacturer.

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SPECIAL APPLICATIONS

ARDEX LQ150 can be used over heated subfloors. For this application, use in conjunction with ARDEX E 25 resilient emulsion. Reduce the mixing water to 3.5 litres and add 1.6 litres of ARDEX E 25.

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 substrate moisture and limitation 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 15 mm without aggregate. For areas requiring a thickness over 15mm to a maximum of 20mm, ARDEX LQ150 must be mixed with a well washed and dried 2 – 5mm aggregate. Mix ARDEX LQ150 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 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 20kg bag
Colour	Grey
Bulk Density of Powder	Approx 1.2kg/L
Coverage	4m² 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)	4 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 damage. This product may cause damage to organs through prolonged or repeated exposure and suspected of causing genetic defects. 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. Wear protective gloves, clothing, eye, and face protection. Avoid inhaling dust/fumes. Ensure adequate ventilation during mixing and application. Store locked up. Check with your local Council regarding the disposal of contents, dispose of packaging thoughtfully. 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, 2 Buda Way Kemps 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 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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