



ARDEX K 80

Industrial Levelling Compound

Ideal for creating wear surfaces for heavy duty application

Easy to install - 5mm to 50mm thickness in one application

Quick drying - Walkable in 2 hours

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DESCRIPTION

ARDEX K 80 is a rapid hardening, quick drying, self levelling compound designed to resurface indoor concrete floors. ARDEX K 80 produces a wear surface finish suitable for commercial and industrial areas including warehouse floors, parking garages and utility areas. ARDEX K 80 can be walked on after approximately 2 hours and coated after 24 hours and subjected to heavy traffic after 48 hours.

SUBSTRATES

ARDEX K 80 is designed for installation over dry internal concrete subfloors.

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. Mechanically prepare 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) and properly primed for successful installation. Subfloor temperatures must be a minimum of 10°C.

For further information, contact ARDEX Technical Services.

PRIMING

Use ARDEX P 51 over standard concrete floors prior to the installation of ARDEX levelling compounds. Mix 1 part ARDEX P 51 with 2 parts water and apply evenly using a push broom. 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). Very absorbent concrete may require two applications of primer to avoid pinholes and bubbling in the levelling compound. In such cases, make the initial coat 1 part ARDEX P 51 diluted with 3 parts water. Allow to dry and install a second coat of 1 part ARDEX P 51 diluted with 1 part water. Allow to dry to a thin, clear film (min. 3 hours, max. 24 hours).

In the case of highly power trowelled or extremely dense non-porous concrete, do not use ARDEX P 82. These surfaces must be mechanically prepared to achieve a rough, porous surface and primed with ARDEX P 51.

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.

DAMP OR GREEN CONCRETE

When a 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 - 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 - 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 sand.

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

4 litres of water to 20 kg of ARDEX K 80.

MIXING

ARDEX Floor levelling products react and harden very quickly when mixed with water. Thorough mixing in the shortest time is essential to ensure the powder and water are evenly dispersed throughout the mix to obtain a lump-free mortar. Always mix the powder into the water. Concrete mixers and hand mixing are not suitable methods.

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 using an electric drill or paddle is 2 to 3 minutes.

To 4 litres of water, add ARDEX K 80 powder whilst mixing thoroughly. Do not over-water.

MANUAL INSTALLATION

Pour the mixed ARDEX K 80 onto the prepared subfloor. Wear football boots with rubber or nylon studs to avoid leaving unnecessary marks in the liquid ARDEX K 80. Spread into place using the ARDEX gauging rake with height adjustment to obtain an even thickness. Use the ARDEX stand-up spreader for smoothing and where necessary the ARDEX hand trowel. Do not rework ARDEX K 80 after 10 minutes working time. If required, additional layers of ARDEX K 80 can be applied once the previous layer has hardened sufficiently. Prime between layers.

PUMPING INSTALLATION

For ease and efficiency of application ARDEX K 80 can be pumped. To ensure compatibility, contact ARDEX Technical Services for guidance and check the suitability from the pump manufacturer.

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COATINGS

The hardened ARDEX K 80 should be protected from wear, oil, salt, chemicals, abrasives and water, by applying a suitable wear protection system. Systems including epoxy coatings or flooring paints can also be used for heavy traffic areas. Contact ARDEX Technical Services for further information.

THICKNESS

ARDEX K 80 can be applied from 5mm to 50mm thickness in one application. For areas requiring a thickness between 10mm - 50mm, ARDEX K 80 can be mixed with an approved ARDEX aggregate. Mix ARDEX K 80 with water first, then add (1/3 to 1 part) by volume of ARDEX approved aggregate whilst mixing thoroughly. Ensure all aggregate is wet through evenly. When bulking, a final smoothing coat of ARDEX K 80 may be required. Contact ARDEX Technical Services for further information.

PAY ATTENTION TO THE FOLLOWING

ARDEX K 80 is not considered a designer floor finish and may be affected by surface blemishes and visual inconsistencies that will not affect the overall performance of the product as an industrial wear surface.

TECHNICAL PROPERTIES	
Mixing Ratio	4L per 20kg bag
Colour	Grey
Bulk Density of Powder	Approx 1.3kg/L
Fresh Mortar Weight	Approx. 2.0kg/L
Coverage	2.4m ² at 5mm

COMPRESSIVE STRENGTH	
1 Day	Approx. 14 MPa
7 Day	Approx. 20 MPa
28 Day	Approx. 32 MPa

TENSILE BENDING STRENGTH	
1 Day	Approx. 3.8 MPa
7 Day	Approx. 5.8 MPa
28 Day	Approx. 9.0 MPa

BALL PRESSURE HARDNESS	
1 Day	Approx. 60 MPa
7 Day	Approx. 65 MPa
28 Day	Approx. 90 MPa

SHELF LIFE

ARDEX K 80 has a shelf life of 12 months if stored in dry conditions in the original unopened packaging.

COVERAGE

Approximately 1.65 kg powder/mm/m² A 20 kg bag will cover approximately 2.4m² at 5mm thickness.

SAFETY DATA

Avoid contact with skin and eyes; in case of contact with the eyes, wash out immediately with fresh running water. If irritation continues, seek medical attention. Wear protective gloves, clothing and eye protection. Avoid inhaling dust/fume/gas/mist/vapours/spray. Ensure adequate ventilation during mixing and application. Store locked up. Check with your local Council regarding the disposal of contents. 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.

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

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 that 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. Users are advised to confirm that this product is suitable for their application and conforms

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with the specifications of the system. 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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This data sheet was issued in September 2025 and is valid for 3 years, in some instances a newer version may be published. Always refer to www.ardexaustralia.com for the latest technical data from ARDEX Australia Pty Ltd.