



ARDEX K 900 BF

Pumpable Bulk Fill Levelling Compound

Economical - Ideal for levelling from 3 mm to 90 mm thick

Easy to Install - Engineered for controlled flow

Strong - Suitable for heavy duty traffic

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DESCRIPTION

ARDEX K 900 BF is a cement based underlayment for levelling subfloors prior to the application of a floor finish. Designed with a coarse sand aggregate and minimal flow for the easy and efficient installations of thick layers. It can also be used as a fast set mortar when the water mixing ratio is reduced.

SUBSTRATES

ARDEX K 900 BF is designed for levelling and adjusting tolerances on internal concrete slabs. For other substrates such as timber, ceramic, terrazzo, steel decking or external applications contact ARDEX Technical Services for detailed information on these procedures with other products.

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 clean the floor using recommended preparation methods such as shot-blasting, 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.

PRIMING

Use ARDEX P51 over standard concrete floors prior to the installation of ARDEX levelling compounds. Mix 1 part ARDEX P51 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 P51 diluted with 3 parts water. Allow to dry and install a second coat of 1 part ARDEX P51 diluted with 1 part water. Allow to dry to a thin, clear film (min 3 hours, max 24 hours). 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, ARDEX WPM 300 (HydrEpoxy) shall be considered as the nominated primer.

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 ~700g/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.

MIXING RATIO

Use 3.2 litres of water to 20 kg of ARDEX K 900 BF powder when used as a leveller, or when used as a fast set mortar bed use 2.1 litres of water with 20kg of powder.

MIXING

ARDEX floor levelling products react and harden quickly when mixed with water. Thorough mixing in the shortest possible time is essential to ensure a lump free mortar. Always mix the powder into the water. 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 is 1 to 2 minutes. Concrete mixers and hand mixing are not suitable methods of mixing. To the required volume of water, add the ARDEX K 900 BF whilst mixing thoroughly. Do not overwater.

MANUAL INSTALLATION

Pour the mixed ARDEX K 900 BF onto the prepared subfloor and spread into place using the ARDEX stand-up spreader or ARDEX hand trowel. Use the ARDEX gauging tool with height adjustment to obtain an even thickness. Use the ARDEX smoother for smoothing and touch up.

ARDEX K 900 BF has a working time of approximately 10 minutes.

PUMPING INSTALLATION

For ease and efficiency of application ARDEX K 900 BF can be pumped using a suitable Automatic Mixing Pump. Follow the instructions as set by the pump manufacturer.

THICKNESS

ARDEX K 900 BF can be applied from 3mm to 90mm thickness in one application.

COVERAGE

A 20kg bag when used with 3 litres of water will cover 1m² at 10mm thick.

DRYING-HARDENING

ARDEX K 900 BF sets by hydration. A 90mm layer will harden after approximately 4 hours at 23°C, and can be walked on after this time. Overlay with ARDEX smoothing compounds from 16 hours. Hardening and drying time will be extended in cooler climates, and shortened in warmer climates. Thicker layers will also extend drying times.

STORAGE

ARDEX K 900 BF has a shelf life 12 months if stored in dry conditions in unopened packaging.

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PAY ATTENTION TO THE FOLLOWING

A self levelling underlayment may be required prior to the installation of floorcoverings.

For any further information contact ARDEX technical services or visit www.ardexaustralia.com

TECHNICAL PROPERTIES	
Mixing ratio	2.1 - 3.2L per 20kg bag
Working time	10 mins
Walkability	Approx. 4 hrs
Overlay with underlayment	16 hours @ 23°C
Coverage	1m ² @ 10mm
Bulk density of powder	1.7 kg / L
Weight of fresh mortar	2.0kg/L

COMPRESSIVE STRENGTH	
After 1 day	Approx. 16 MPa
After 7 days	Approx. 34 MPa
After 28 days	Approx. 36 MPa

TENSILE BENDING STRENGTH	
After 1 day	Approx. 3 MPa
After 7 days	Approx. 5 MPa
After 28 days	Approx. 8 MPa

SAFETY DATA

This product causes skin irritation and may cause an allergic skin reaction. It causes serious eye damage and may cause respiratory irritation. This product is suspected of causing genetic defects and causes damage to organs through prolonged or repeated exposure. In case of contact with the eyes, remove contact lenses if present and easy to do, rinse with running water until advised to stop by 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. Keep out of the reach of children. Call a doctor if you feel unwell. At times updates can occur to data. 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 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 October 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.