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# ARDEX CL 30

## Economical Levelling and Smoothing Compound

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Designed for reliability

Walkable from 3 - 4 hrs

Ready for Coverings: after 24 - 48 hrs

Apply from 3mm to 30mm in one application

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### DESCRIPTION

ARDEX CL 30 is an economical levelling and smoothing compound designed to prepare internal concrete substrates with a high quality finish before the installation of floor coverings; such as, carpet, resilient flooring, timber and coatings.

### SUBSTRATES

New and existing concrete, ARDEX A 38, ARDEX A 48, ARDEX K 900 BF.

Substrates with special requirements (Contact ARDEX Technical Services or view relevant Technical Bulletin online) Such as, moisture vulnerable concrete, compressed fibre cement flooring, terrazzo, quarry and ceramic tiles, concrete sub floors with electric under floor heating, existing epoxy coatings, lightweight autoclave concrete, primer treated metal, patching timber under underlay sheets

### FLOOR COVERINGS

- Textile: broadloom and carpet tiles
- Resilient flooring: Commercial and residential sheet vinyl, LVT, LVP, vinyl composite and rubber
- Timber: floating and direct stick timber floors
- Ceramic tiles: Internal dry areas only

### 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 sub floor. Do not use solvents or sweeping compounds.

- The sub floor must be dry in accordance with AS1884 and primed properly for successful installation
- The sub floor vapour barrier must be intact and complete
- The sub floor temperature must be at least 10°C.
- Non-porous floors, such as terrazzo, ceramic and quarry tiles, and epoxy coatings: must be solid, well bonded and properly cleaned and primed with ARDEX P 82 or ARDEX P 9 Primer

For more information, please contact ARDEX Technical Services ([technicalservices@ardexaustralia.com](mailto:technicalservices@ardexaustralia.com))

### PRIMING

#### Porous Substrates

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.

#### Non-Porous Substrates

ARDEX P 9 is diluted with water 1:1 by volume and apply with a brush or roller with applications of leveller able to be applied after approximately 20 minutes at 23°C and 50% relative humidity. Ensure ARDEX P 9 single part primer is fully dry prior to the application of the leveller compound.

ARDEX P 82 is mixed 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.

- For power-trowelled (burnished) concrete and high strength concrete greater than 35 MPa, please contact ARDEX Technical Services ([technicalservices@ardexaustralia.com](mailto:technicalservices@ardexaustralia.com)).
- Steel decking - please contact ARDEX Technical Services ([technicalservices@ardexaustralia.com](mailto:technicalservices@ardexaustralia.com)).

### DAMP OR GREEN CONCRETE

When a concrete substrate moisture content is measured at greater than 80% relative humidity (ASTM F2170) or exceeds 15gm/m<sup>2</sup>/24hrs (ASTM F1869) when tested in accordance with AS 1884.

Option 1 - A single coat of ARDEX WPM 300 applied at 3m<sup>2</sup>/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 3m<sup>2</sup>/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

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)

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### MIXING RATIO

The mixing ratio for ARDEX CL 30 is 4.1 - 4.3 litres of water to 20kg of powder.

### 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 a suitable mixing paddle and a heavy duty electric drill (650rpm).

The normal mixing time for a 20kg bag is 2 to 3 minutes.

Note: Concrete mixers and hand mixing are not suitable methods of mixing.

### MANUAL INSTALLATION

Pour the mixed ARDEX CL 30 onto the prepared subfloor. Wear football boots with rubber or nylon studs to avoid leaving unnecessary marks in the liquid ARDEX CL 30. 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 CL 30 after 10 minutes.

If required, additional layers of ARDEX CL 30 can be applied once the previous layer has hardened sufficiently. Prime between layers using ARDEX P 51.

### PUMPING INSTALLATION

For ease and efficiency of application ARDEX CL 30 can be pumped.

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

### THICKNESS

ARDEX CL 30 can be applied from 3mm to 30mm thickness in one application.

ARDEX CL 30 can be bulked out using ARDEX 2-5mm aggregate to achieve thicknesses up to 40mm.

To bulk out mix ARDEX CL 30 with water (4.1 - 4.3L) first, then add the aggregate (up to an equal weight of the powder) whilst mixing.

### COVERAGE

Approximately 1.7kg powder/mm/m<sup>2</sup>.

A 20kg bag will cover approximately 3m<sup>2</sup> at 4mm thickness.

### SHELF LIFE

ARDEX CL 30 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.

### READY FOR FLOORCOVERINGS

Ready for tiles once walkable.

Ready for broadloom carpet and carpet tiles from 24 hrs

Ready for resilient flooring from 48 hrs

Ready for floating floors from 24 hrs or direct stick timber flooring from 72 hrs

Drying time is dependent on job site temperature, humidity, installation thickness and floor covering type. (Based on 23°C and 50% RH.)

Note: Low sub-floor temperatures and/or high ambient humidity will result in longer drying times.

#### TECHNICAL PROPERTIES

|                        |                          |
|------------------------|--------------------------|
| Mixing Ratio           | 4.1L - 4.3L per 20kg bag |
| Colour                 | Grey                     |
| Bulk Density of Powder | Approx 1.3kg/L           |
| Coverage               | 3m <sup>2</sup> at 4mm   |
| Weight of Fresh Mortar | 2.0kg/L                  |
| Walkability            | Approx 3 - 4 hours       |
| Floor Coverings        | 24 - 72 hrs hours @ 23°C |

#### COMPRESSIVE STRENGTH

|               |               |
|---------------|---------------|
| After 1 day   | Approx 15 MPa |
| After 7 days  | Approx 25 MPa |
| After 28 days | Approx 30 MPa |

#### FLEXURAL STRENGTH

|               |               |
|---------------|---------------|
| After 1 day   | Approx 5 MPa  |
| After 7 days  | Approx 7 MPa  |
| After 28 days | Approx 10 MPa |

### LIMITATIONS

This product is not designed as a floor finish and must be finished with a suitable floor finish

This product is intended for interior use over dry substrates only. Do not use in areas of constant water exposure or in areas exposed to permanent or intermittent substrate moisture, as this may jeopardize the performance of the underlayment and the floor coverings.

### 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 may cause cancer and causes damage to organs through prolonged or repeated exposure. 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

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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](http://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](mailto: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 or 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 datasheet was issued in June 2025 and is valid for 3 years, in some instances a newer version may be published.

Always refer to [ardexaustralia.com](http://ardexaustralia.com) for the latest technical data from ARDEX Australia Pty Ltd.