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# ARDEX K 55S

## Rapid Drying Self Levelling Underlayment

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High early compressive and flexural strength

Ready to receive floorcoverings from 1 hr

Suitable for a wide range of substrate types

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### DESCRIPTION

ARDEX K 55S is the next generation of floor levelling and smoothing underlayment. Utilising ARDEX REVOCEM technology allows for rapid drying and very high early strength. ARDEX K 55S provides the highest quality finish, with the fastest project turnaround prior to the installation of floor coverings over a wide range of substrates.

### SUBSTRATES

- Engineered screeds and concrete substrates
- Chipboard P4-P7 and OSB 2-4 boards
- Mastic asphalt screeds
- Magnesite screeds
- Ceramic tiles and slabs
- Terrazzo floors
- Other suitable substrates (Contact ARDEX technical services)

### FLOORCOVERINGS

- Carpet and carpet tiles
- Resilient sheet, plank, tile and rubber
- Engineered and strip timber
- Natural stone and tile
- Epoxy and polyurathane coatings

### 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.

Structural chipboard and ply substrates must be solid, clean and free of dust, plaster droppings, grease, paint, oil, polish and loosely adhered or water-softenable material. Prior to levelling wooden floors, re-nail and firmly fix all loose boards.

The subfloor must be dry (AS 1884) and primed properly for successful installation. The subfloor temperature must be at least 10°C. For more information, contact ARDEX Technical Services.

Acid etching is not an acceptable method for cleaning the subfloor. Do not use solvents or sweeping compounds.

### SUITABLE PRIMERS

- ARDEX P 51
- ARDEX Multiprime
- ARDEX P9
- ARDEX P82
- Prepared chipboard and ply do not require primer

### PRIMING

Use ARDEX P 51 over concrete/engineered screeds 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).

For non-porous substrates, prime using ARDEX P 9 or ARDEX P82 following instructions on the relevant technical datasheet or product label.

ARDEX K 55S can be used without primers over chipboard or plywood.

Due to wax coatings and sealers used on some brands of particle board/chipboard, it is necessary to remove these coatings by mechanical means, such as sanding.

### 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 (650rpm).

MIX ARDEX K 55S with 4.8 - 5 litres of clean, cold water until mixed to a lump free consistency

### MANUAL INSTALLATION

Pour the mixed ARDEX K 55S onto the prepared substrate and spread in place using the ARDEX stand-up spreader or ARDEX hand trowel. Use the ARDEX gauging tool with height adjustment to obtain an even thickness.

Do not rework ARDEX K 55S after 15 minutes. Wear football boots with rubber or nylon studs to avoid leaving marks in the ARDEX K 55S. If required, additional layers of ARDEX K 55S can be applied once the previous layer is dry.

### THICKNESS

ARDEX K 55S can be applied from 1.5 – 10 mm in one application without aggregate.

For areas requiring a thickness over 10mm to a maximum of 20mm, ARDEX K 55S must be mixed with a well washed and dried 2–5mm aggregate.

Mix ARDEX K 55S with specified water then add ARDEX 2-5mm aggregate.

### DRYING AND HARDENING

Drying time is dependent on jobsite temperature, humidity,

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installation thickness and floor covering type. (Based on 23°C and 50% RH.)

ARDEX K 55S is ready to receive floorcoverings once walkable, after approximately 1hr

### COVERAGE

ARDEX K 55S will cover 4.5m<sup>2</sup> at 3mm per bag

### APPLICATIONS OVER UNDERFLOOR HEATING

The engineered screed/concrete subfloor should have been laid in accordance with Australian Standard AS 1884. The underfloor heating system should have been commissioned in accordance with the manufacturer's instructions and in accordance with Australian Standard AS 1884.

Once thermally cycled and commissioned the underfloor heating system should be turned down to 15°C before the installation of the ARDEX K 55S smoothing compound and final floor covering. The underfloor heating system should then be gradually re-commissioned to avoid rapid thermal shock and temperature variation.

### SHELF LIFE

ARDEX K 55S 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.

### PAY ATTENTION TO THE FOLLOWING

Before any substrate preparation, installation or finishing methods relating to ARDEX product are undertaken, please be aware of any potential risks and use appropriate PPE (personal protective equipment). This may involve contacting substrate manufacturers for Safety Data Sheets.

| TECHNICAL PROPERTIES   |                          |
|------------------------|--------------------------|
| Mixing Ratio           | 4.8 - 5L per 20kg bag    |
| Colour                 | Grey                     |
| Bulk Density of Powder | Approx 1.3kg/L           |
| Coverage               | 4.5m <sup>2</sup> at 3mm |
| Weight of Fresh Mortar | 1.9kg/L Approx.          |

| COMPRESSIVE STRENGTH |               |
|----------------------|---------------|
| After 1 day          | Approx 33 MPa |
| After 28 days        | Approx 55 MPa |

| FLEXURAL STRENGTH |               |
|-------------------|---------------|
| After 1 day       | Approx 7 MPa  |
| After 28 days     | Approx 12 MPa |

### 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 [www.ardexaustralia.com](http://www.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 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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All aforementioned products are the trade marks of ARDEX Australia Pty Ltd, its licensors and affiliates.

This data sheet was issued in August 2025 and is valid for 3 years, in some instances a newer version may be published. Always refer to [www.ardexaustralia.com](http://www.ardexaustralia.com) for the latest technical data from ARDEX Australia Pty Ltd.