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# ARDEX A 46

## External Patching Compound

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For external repairs to concrete floors, walls and stairs

Ideal for smoothing surfaces and forming ramps

Quick Drying - Trafficable after 2-3 hours

Easy to install - 2mm to 30mm in one application

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**ARDEX Australia Pty Ltd**  
20 Powers Road  
Seven Hills NSW 2147  
1300 788 780  
technicalservices@ardexaustralia.com  
[www.ardexaustralia.com](http://www.ardexaustralia.com)

**ARDEX New Zealand Ltd**  
15 Alfred Street  
Onehunga, Auckland, 1061  
Phone: 0800 227 339  
Email: [info@ardexnz.com](mailto:info@ardexnz.com)  
[www.ardex.co.nz](http://www.ardex.co.nz)

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### DESCRIPTION

ARDEX A 46 is a rapid hardening, rapid drying, slump-free mortar for external repairs. It is ideal for repairing and resurfacing concrete stair treads and risers and concrete subfloors. Also for filling and patching cracks in walls, ceilings, window and door frames, and can be used to form ramps from 2mm – 30mm. Mixed mortar sets after 15-20 minutes and can be subjected to foot traffic after 2-3 hours at 20°C.

### SURFACE PREPARATION

ARDEX A46 can be applied directly to dry or moist substrates provided they are set and hardened and the surface is sound, free of dust, grease, oil and other surface contamination. Worn or trafficked surfaces should be abraded with a diamond grinder or scarifier to remove any contamination and to roughen concrete to expose a clean porous surface to ensure good adhesion. Subfloor temperatures must be a minimum of 10°C, and maximum of 30°C. For further information, contact ARDEX technical services.

### MIXING RATIO

Approximately 4.8 - 5.6 litres of water to 20 kg of A 46 powder, or; 1 volume of water to 3.5 volumes of A 46 powder.

### MIXING

ARDEX repair products react and harden quickly when mixed with water. Thorough mixing in the shortest possible time is essential to ensure a lump free, slump resistant 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). To 4.8 - 5.6 litres of water, add the ARDEX A 46 (20 kg) whilst mixing thoroughly. Do not overwater. If the mix initially appears dry, continue mixing for a full 2 - 3 minutes until a creamy non-slump mortar is achieved, do not add additional water. The mixed mortar has a working time of 15 - 20 minutes at 20°C. This time will be extended in cooler temperatures, and reduced at higher temperatures.

### THICKNESS

ARDEX A 46 can be applied from 2 – 30mm in one application.

### INSTALLATION

For repairs, apply the mortar with a trowel to holes, cracks and damaged areas, ensuring that the mortar “wets” the surface by trowelling in firmly, leaving the repair proud. After approximately 15 minutes, trim off excess and finish off with a wet trowel, sponge, or sponge float to obtain a smooth surface. For ramps, work the mortar into the prepared substrates with a trowel. If floorcoverings are to be installed, ARDEX A 46 must be left for 24 hours. If the product is to be coated, it should be left for 2 days up to 5mm, 5 days up to 10mm, 7 days up to 20mm and 10 days up to 30 mm. These times will be shorter in warm conditions and longer in cool conditions. Note: Exterior installations must be protected from direct sunlight and draughts which could lead to accelerated drying of the surface.

### LIMITATIONS

ARDEX A 46 is suitable for foot traffic and light duty, soft wheeled, vehicle traffic. Do not use for heavy duty areas such as areas subjected to heavy vehicles, or heavily trafficked areas.

### COVERAGE

Approximately 1.4kg powder/mm/m<sup>2</sup>.

### SHELF LIFE

ARDEX A 46 has a shelf life of 12 months if stored in dry conditions, in unopened packaging at 23°C and 50% relative humidity.

### SAFETY DATA

This product may cause irritation and an allergic reaction to the skin. It may cause serious eye injury and irritation to the respiratory system. 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/gas/mist/vapours/spray. Ensure adequate ventilation during mixing and application. Store locked up. Check with your local Council regarding the disposal of contents, dispose of packaging thoughtfully and recycle where possible. 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).

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### TECHNICAL DATA

**Bulk density of powder** 1.3 g/L  
**Weight of fresh mortar** 1.8 kg/L

### Compressive Strength

**After 1 days** 10MPa  
**After 7 days** 15 MPa  
**After 28 days** 20MPa

### Tensile Bending Strength

**After 1 days** 10MPa  
**After 7 days** 15MPa  
**After 28 days** 20MPa

### 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, 20 Powers Road Seven Hills NSW 2147; 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

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This datasheet was issued in October 2019 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.