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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  
7/20 Powers Road  
Seven Hills NSW 2147  
Tel: (02) 9851 9199  
Fax: (02) 674 5621  
E: [techinfo@ardexaustralia.com](mailto:techinfo@ardexaustralia.com)  
W: [www.ardex.com](http://www.ardex.com)

Ardex New Zealand Ltd  
32 Lane Street, Woolsten  
Christchurch, New Zealand  
Tel: (03) 384 3029  
Fax: (03) 384 9779  
E: [techinfo@ardexaustralia.com](mailto:techinfo@ardexaustralia.com)  
W: [www.ardex.com](http://www.ardex.com)

# ARDEX A 46

## Exterior Patching Compound

**ARDEX A46 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. Priming is not generally required for these types of surfaces, unless they are extremely porous, in which case prime with ARDEX P51. Subfloor temperatures must be a minimum of 10°C, and maximum of 30°C. For further information, contact ARDEX technical services.

### **MIXING RATIO**

Approximately 6 - 7 litres of water to 25 kg of A 46 powder, or;  
1 volume of water to 3.5 volume 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 6 - 7 litres of water, add the ARDEX A 46 (25 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 cooler 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 wheel, vehicle traffic. Do not use for heavy duty areas such as areas subjected to heavy vehicles, or heavily trafficked areas.

### **COVERAGE**

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

### **TECHNICAL DATA**

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

### **Compressive Strength**

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

### **Tensile Bending Strength**

After 1 days - 2 MPa  
After 7 days - 4 MPa  
After 28 days - 6 MPa

### **STORAGE**

ARDEX A 46 has a shelf life of 12 months if stored in dry conditions in unopened packaging.

### **HEALTH & SAFETY**

ARDEX A 46 contains Portland cement and Quartz sand. Avoid generation of dust. Do not inhale dust. Avoid contact with eyes or skin. Wear suitable protective gloves and safety glasses. In case of contact with eyes, rinse opened eye for several minutes under running water. In case of contact with skin, rinse effected areas thoroughly with running water. If dust is inhaled, remove to fresh air, ensure breathing passages are clear, and rinse mouth with running water. If symptoms persist, seek medical advice. Material Safety Data Sheets are available on request.

**TECHNICAL SERVICES: 1800 224 070 (Aust)**  
**0800 224 070 (NZ)**

**NSW**

Phone: (02) 9851 9100

Fax: (02) 9674 5621

**QLD**

Phone: (07) 3881 3888

Fax: (07) 3881 3188

**VIC**

Phone: (03) 9308 9255

Fax: (03) 9308 9332

**SA**

Phone: (08) 8268 2511

Fax: (08) 8345 3207

**WA**

Phone: (08) 9455 1644

Fax: (08) 9455 1227

**New Zealand (Christchurch)**

Phone: (03) 384 3029

Fax: (03) 384 9779

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**NOTE**

ARDEX products are generally warranted for 10 years when installed to the relevant Australian Standards and applicable ARDEX specification, technical data sheet and instruction for application and use. While we assure customers the high standard and quality of our products and services, we accept no liability for any loss or damage which arises from particular site conditions, poor handling and storage, or installation by unqualified and unskilled applicators.