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# ARDEX A 41

## Internal Repair Mortar

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Low VOC and user friendly

Easy installation with various thicknesses

Ideal for patching holes and cracks in masonry  
and concrete substrates

Can be used as a ramping product

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# ARDEX A 41

## Internal Repair Mortar

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### PRODUCT DESCRIPTION

ARDEX A 41 is a rapid setting and drying, slump-free mortar for internal repairs. The mortar dries and hardens to give a repair of exceptional strength and hardness. The mixed mortar sets after 45 minutes and can be ready to receive floor coverings after 2 hours at 23°C.

### SUBSTRATES

ARDEX A 41 is ideal for repairing internal concrete stair treads and risers, sand/ cement screeds, concrete floors and filling and patching cracks in walls and ceilings. Builders and trade contractors would use ARDEX A 41 internally around door and window frames and around pipework. Also, it can be used to form ramps from feather edge to normal screed thicknesses. A suitable covering/coating is required if used as a wearing surface.

### SURFACE PREPARATION

Substrate surface must be solid, clean and free of wax, grease, asphalt, latex compounds, curing and sealing compounds and any other surface contaminant. Worn or trafficked surfaces should be abraded (diamond grinder or scarified) to remove contamination and roughen concrete to expose a clean porous surface to ensure good adhesion. Very dense, smooth impervious surfaces should be primed with ARDEX P 82 Primer. Priming is not usually necessary on porous surfaces such as concrete, sand/ cement screeds, brickwork etc., unless the surface is extremely porous. Direct to earth sub-floors must have an effective damp-proof membrane.

Do not use solvents or sweeping compounds. Sub-floor must be dry (AS 1884-1985) and properly primed for successful installation. Sub-floors temperatures must be a minimum of 10 °C. For further information, contact ARDEX technical services.

### MIXING RATIO

Mix 2.8 litres of water to 20 kg of ARDEX A 41 powder. When mixing smaller quantities by volume use approximately 5 parts of ARDEX A 41 powder to 1 part of clean water.

### MIXING

ARDEX flooring 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 water. The most efficient method of mixing is by using ARDEX mixing paddle and a heavy duty electric drill (650 rpm). Normal mixing time of 20 kg bag is 2 to 3 minutes. Ideally, two people should be doing the mixing, one person using the mixing drill and the other person gradually adding the bag contents into the mixing container. Mix well and avoid leaving lumps in the mix. Do not exceed the water limit. After mixing, ARDEX A 41 has a working time of 15 minutes at 20°C.

### APPLICATION

**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 about 15 minutes or when a “tight” surface is achieved, trim off excess and finish off with a wet trowel, use sponge float to eliminate trowel marks and obtain a smoother surface. As soon as the repair has hardened, the surface of the floor, stair tread etc., can be levelled, if necessary with ARDEX sub-floor levelling cement.

**Smoothing and re-shaping:** Apply the mixed mortar with a trowel to the required thickness taking into account the short working time. The material may be finished with a wet trowel after 15 – 20 minutes to provide a finish suitable for direct application of floor coverings. Apply at temperatures above 10°C.

### DRYING TIME

ARDEX A 41 will be ready to receive floor coverings in approximately 2 hours. Higher temperatures will reduce the drying time, whilst lower temperatures will extend drying time.

### COVERAGE

Approximately 1.7 kg of powder will cover 1 m<sup>2</sup> at 1mm thickness. A 20 kg bag will cover approximately 4 m<sup>2</sup> at 3mm thickness.

## TECHNICAL DATA

**Bulk density of powder** 1.5 kg/L (approx)

**Weight of fresh mortar** 2.0 kg/L (approx)

### Compressive strength:

**After 1 day** 20 MPa (approx)

**After 7 days** 25 MPa (approx)

**After 28 days** 30 MPa (approx)

### Flexural strength:

**After 1 day** 4 MPa (approx)

**After 7 days** 7 MPa (approx)

**After 28 days** 8 MPa (approx)

## STORAGE

ARDEX A41 has a shelf life of 12 months if stored in dry conditions in unopened packaging.

## HEALTH AND SAFETY

ARDEX A41 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 affected 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.

**Note:** ARDEX products are generally warranted for 10 years when installed to the relevant Australian Standards and applicable ARDEX specifications, 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.

## 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 Standard, our instructions and recommendations and only for the uses they are intended. 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 effect 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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September 2010

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September 2010

