



# ARDEX A 50

## External Rapid Hardening Repair Mortar

### Advantages

- **Rapid Hardening, Ready for tiling over after 3-4 hours**
- **Suitable for external & internal, wet & dry areas**
- **Easy installation with various thicknesses**
- **Ideal for patching holes and cracks in masonry and concrete substrates**
- **Suitable as a temporary wear surface**



### Description

ARDEX A50 is a rapid hardening, slump-free mortar for internal and external repairs. The mortar hardens rapidly to give a repair of exceptional strength and hardness. The mixed mortar sets after approximately 60 minutes and can be trafficked after approx. 3 Hours at 23°C.

### Areas of Application

ARDEX A50 is ideal for: - repairing and refacing concrete stair treads and risers, cement/sand screeds, concrete floors etc.; filling and patching cracks, etc., in walls, ceilings, soffits etc.; making good around door and window frames, around pipe work etc.; forming ramps from 1.5mm to normal screed thicknesses; forming coves etc, prior to applying in-situ resin floorings.  
A suitable covering/coating is required if used as a permanent wear surface.

### Substrate Preparation

ARDEX A50 can be applied to dry or moist screeds provided they are hardened & set and the surface is sound and free of dust, grease, oil and other surface contamination. Worn or trafficked surfaces should be abraded (diamond grinder, scarifier, shot-blaster, angle grinder, wire brush) to remove contamination and roughen concrete to expose a clean porous surface to ensure good adhesion.

Priming is not usually necessary on porous surfaces such as concrete, cement/sand screeds, brickwork etc, unless the surface is extremely porous.  
Direct to earth sub-floors must contain an effective damp-proof membrane. If not, use ARDEX WPM 300 or ARDEX DPM.  
High Strength/Dense/Non-Porous Substrates  
Use a solvent-free (R2PE) or water-based (WPM 300) epoxy primer and blind with sand (~ 1.0mm). Allow each primer to cure to a hard film (24 hours) before proceeding.

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Once cured, sweep the surface with a stiff bristled push broom and then thoroughly vacuum to remove all loose sand before application of ARDEX A 50.

### Mixing

The ARDEX A50 powder is added to the required amount of water in a clean mixing container and mixed thoroughly to obtain a lump-free and slump-resistant mortar.

Approx. 4.5L of water to 25kg ARDEX A 50.

Approx. 1.8L of water to 10kg ARDEX A 50.

Avoid using too much water. The mixed mortar has a working time of 15 to 20 minutes at 23°C, this time being extended at lower, and reduced at higher temperatures.

### Application

**Repairs:** Apply the mortar with a trowel to holes, cracks and damaged areas, ensuring that the mortar “wets” the surface by troweling in firmly, leaving the repair proud. After about 30 minutes trim off excess and finish off with a wet trowel, sponge or float to obtain a suitable surface finish.

**Smoothing and Refacing:** 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 30 minutes to provide a suitable surface finish.

Apply at temperatures above 10°C.

### Packaging

10 kg per bag

25 kg per bag

### Consumption

A 25kg bag of ARDEX A 50 will cover approximately 2.3m<sup>2</sup> at 6mm thickness.

A 10kg bag of ARDEX A 50 will cover approximately 0.92m<sup>2</sup> at 6mm thickness.

### Storage & Shelf Life

Shelf life 6 months when unopened and stored in a cool, dry place.

### Technical Data

Bulk Density of Powder	approx. 1.4kg/L
Weight of fresh mortar	approx. 2.05kg/L
Ready for tiling over	3-4hrs
Adhesion	approx. 1.5MPa
Compressive strength	
After 1 day	approx. 12MPa
After 7 days	approx. 20MPa
After 28 days	approx. 28MPa
Flexural strength	
After 1 day	approx. 2MPa
After 7 days	approx. 5MPa
After 28 days	approx. 8MPa
Shrinkage	<0.1%
Abrasion resistance	<0.1g

### Health & Safety

Wear work clothing, gloves, and protective goggles during use.

After work, wash contacted skin with water and soap.

If product accidentally splashes into the eyes, rinse immediately with plenty of clean water and seek medical attention.

Keep out of reach of pregnant women and children.

Ensure adequate ventilation during use.