



ARDEX A 50

External Rapid Hardening Repair Mortar

Rapid Hardening – Ready for tiling over after 3–4 Hours

Can be used for external and internal areas, wet and dry areas

Easy installation with various thicknesses

Ideal for patching holes and cracks in masonry and concrete substrates

Can be used as a ramping product

Suitable as a temporary wear surface



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External Rapid Hardening Repair Mortar

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-blast, 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 WPM300 or ARDEX DPM.

High Strength/Dense/Non-Porous Substrates
Use a solvent-free (R2PE) or water-based (WPM300) epoxy primer and blind with sand (~1.0mm). Allow each primer to cure to a hard film (24 hours) before proceeding. Once cured, sweep the surface with a stiff bristled push broom and then thoroughly vacuum to remove all loose sand before application of ARDEX A50.

MIXING RATIO

Approx. 3.75L of water to 25kg ARDEX A50.
Approx. 1-part water to 5 parts powder by volume.

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.

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.

INSTALLATION

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 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.

COVERAGE

A 25kg bag of ARDEX A50 will cover approximately 2.3m² at 6mm thickness.

PACKAGING

25kg multi-layer paper bags incorporating a poly liner.

STORAGE & SHELF LIFE

ARDEX A50 has a shelf life of approximately 6 months if stored in dry conditions in the original un-opened packaging.

TECHNICAL DATA

Powder

Bulk Density of Powder:	approx. 1.4kg/L
Weight of fresh mortar:	approx. 2.05kg/L
Ready for tiling over:	3-4hrs
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
Adhesion:	approx. 1.5MPa

HEALTH & SAFETY

ARDEX A50 is considered non-hazardous in normal usage, however it contains Portland cement & quartz sand and reacts alkaline which may cause some skin irritation after prolonged contact. Avoid generation and breathing of dust. Avoid contact with eyes or skin. Wear suitable protective dust mask, gloves and safety glasses. In case of contact with eyes, rinse for several minutes under running water. In case of contact with skin, rinse with running water. If dust is inhaled, remove to fresh air, ensure breathing passages are clear and rinse mouth with water. In the case of adverse symptoms, seek medical advice. Physiologically and ecologically safe when in the cured state. For further information, please consult the Material Safety Data Sheet (MSDS).

The information supplied in our literature or given by our employees is based upon extensive experience and, together with that supplied by our agents or distributors, is given in good faith in order to help you. Our Company policy is one of continuous Research and Development; we therefore reserve the right to update this information at any time without prior notice. We also guarantee the consistent high quality of our products; however, as we have no control over site conditions or the execution of the work, we accept no liability for any loss or damage which may arise as a result thereof. Regional specific recommendations, standards, codes of practice, building regulations or industry guidelines may affect specific installation recommendations.