



ARDEX A 45

Internal Rapid Dry Repair Mortar

Rapid Hardening & Drying – Receives Finishes after 90mins

Slump Free – Ideal for Vertical & Horizontal Repairs

Rapid Repair of Internal Concrete Sub-Floors and Concrete Stairs



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ARDEX A 45

Internal Rapid Dry Repair Mortar

DESCRIPTION

ARDEX A 45 is a rapid setting and drying, slump-free mortar for internal repairs. The mortar dries and hardens rapidly to give a repair of exceptional strength and hardness. The mixed mortar sets after 15 minutes and can be trafficked after 90 mins at 23°C.

USE

ARDEX A45 is ideal for repairing and refacing concrete stair treads and risers, concrete floors, filling and patching and forming ramps and coves. Other uses include repairs on wall, ceilings, soffits, making good around windows and door frames and filling around penetrations. The thickness available ranges from feather edge to 50mm with aggregate. Can be used as a wear type floor with a suitable epoxy or urethane pigmented finish.

PREPARATION

ARDEX A 45 can be applied to dry surfaces (as per AS1884) providing they are set and hardened and the surface is sound and free of dust, grease, oil and other surface contamination.

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 P82 Primer.

Priming is not usually necessary on porous surfaces such as concrete, cement/sand, brickwork etc., unless the surface is extremely porous. Direct to earth sub-floors must have an effective damp-proof membrane.

Power-trowelled (burnished) concrete and Hi-strength concrete greater than 35 MPa shall mechanically prepared to a CSP3 profile.

MIXING

The ARDEX A 45 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.

Mix Proportions:

20kg ARDEX A 45 powder to approx. 4.5 litres of water (i.e. approximately 3 parts powder to 1 part water by volume) Avoid using too much water.

The mixed mortar has a working time of 10 to 15 minutes at 23°C, this time being extended at lower, and reduced at higher temperatures.

For thicknesses over 5mm, but not exceeding 30mm, the ARDEX A 45 mortar can be bulked out with 1/3 volume of sharp sand (0-5mm grading), or up to an equal volume of 3mm single sized aggregate/chippings. For localised thicknesses exceeding 20mm and up to 50mm, e.g. filling deep holes and cracks, incorporate up to an equal volume of 10mm single sized coarse aggregate (BS 882 – table 4) in the ARDEX A 45 mortar.

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 trim off excess and finish off with a wet trowel, sponge or sponge float to obtain a smooth surface. As soon as the repair has hardened, the surface of the floor, stair tread etc., can be levelled, if necessary with an ARDEX sub-floor levelling cement.

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 15 – 20 minutes to provide a finish suitable for direct application of floor coverings. High aggregate content mixes may require a second application of "neat" ARDEX A 45. Apply at temperatures above 10°C.

COVERAGE

Approx. 1.6 kg ARDEX A 45 powder/m²/mm. A 20kg bag of ARDEX A 45 will cover approximately 12m² at 1mm thickness.

TECHNICAL PROPERTIES

Bulk density of powder	Approx. 1.4kg / litre
Weight of fresh mortar	Approx. 1.9kg / litre
Initial Set (Vicat) DIN1164	Approx. 15 mins at 23°C
Final Set (Vicat) DIN1164	Approx. 90 mins at 23°C

COMPRESSIVE STRENGTH

After 1 days	Approx. 25 MPa
After 7 days	Approx. 35 MPa
After 28 days	Approx. 40 MPa

TENSILE BENDING STRENGTH

After 1 day	Approx. 5 MPa
After 7 days	Approx. 8 MPa
After 28 days	Approx. 10 MPa

BALL PRESSURE HARDNESS (BRINELL)

After 1 day	Approx. 40 MPa
After 7 days	Approx. 45 MPa
After 28 days	Approx. 50 MPa

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PACKAGING

ARDEX A 45 is packed in paper sacks incorporating a polythene liner – net weight 20kg bags.

SHELF LIFE

ARDEX A 45 has a storage life of 12 months if stored in dry conditions in the original packaging at 23°C and 50% relative humidity.

SAFETY DATA

This product causes skin irritation and may cause an allergic skin reaction. It causes serious eye damage and may cause respiratory irritation. This product is suspected of causing genetic defects and causes damage to organs through prolonged or repeated exposure. In case of contact with the eyes, remove contact lenses if present and easy to do, rinse with running water until advised to stop by a doctor, or for at least 15 minutes. Wear protective gloves, clothing, eye and face protection. Avoid inhaling dust/fumes. Ensure adequate ventilation during mixing and application. Store locked up. Check with your local Council regarding the disposal of contents, dispose of packaging thoughtfully. Keep out of the reach of children. Call a doctor if you feel unwell. Additional information is in the Safety Data Sheet (SDS) at ardexaustralia.com or ardex.co.nz

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, 2 Buda Way, Kemps Creek, NSW 2178; Toll Free: 1800 224 070; Email: 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".

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