



ARDEX A 45

Internal Rapid Dry Repair Mortar

Rapid Hardening & Drying – Receives Finishes after 1 1/2 Hours

Slump Free – Ideal for Vertical & Horizontal Repairs

Rapid Repair of Internal Concrete Sub-Floors and Concrete Stairs

Fills Holes and Cracks in Renders, Screeds, etc.

ARDURAPID Formula



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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 1.5 Hours 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 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. The mix proportions are:

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.

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 may cause irritation and an allergic reaction to the skin. It may cause serious eye injury and irritation to the respiratory system. In case of contact with the eyes rinse with running water until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Wear protective gloves, clothing, eye and face protection. Avoid inhaling dust/fumes/gas/mist/vapours/spray. Ensure adequate ventilation during mixing and application. Store locked up. Check with your local Council regarding the disposal of contents, dispose of packaging thoughtfully and recycle where possible. Keep out of the reach of children. Call the Poisons Information Centre on 131 126 (AUS) and 0800 764 766 (NZ) or call a doctor if you feel unwell. Additional information is in the Safety Data Sheet (SDS) at www.ardexaustralia.com.

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TECHNICAL DATA

Bulk density of powder	approx. 1.4kg/litre
Weight of fresh mortar	approx. 1.9kg/litre
Initial Set (Vicat) DIN1164	approx. 15 minutes at 23°C
Final Set (Vicat) DIN1164	approx. 60 minutes at 23°C
Compressive strength:	After 1 day 25 MPa After 3 days 35 MPa After 28 days 40 MPa
Tensile bending strength:	After 1 day 5 MPa After 3 days 8 MPa After 28 days 10 MPa
Ball Pressure Hardness (Brinell):	After 1 day 40 MPa After 3 days 45 MPa After 28 days 50 MPa

NOTE: The information contained herein is to the best of our knowledge true and accurate. No warranty is implied or given as to its completeness or accuracy in describing the performance or suitability of the product application. Users are asked to check that the literature in their possession is the latest issue.

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, 20 Powers Road Seven Hills NSW 2147; 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".

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 Standards. Our instructions and recommendations are 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 affect 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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