



CI/SfB

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PRODUCT DATA SHEET

ARDEX A 45

Rapid Hardening and Drying Internal Repair Mortar

Features

Rapid hardening and drying - receives finishes after 1¹/₂ hours

Slump free - ideal for vertical and horizontal repairs

Rapid repair of internal concrete sub-floors and concrete stairs

Fills holes and cracks in renders, screeds etc.

Available in 11kg bags and 5kg tubs

Rapidry Formula



RAPIDRY



What is the Rapidry Formula?

It is the ability of the mortar to totally bind the water used for mixing.



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ARDEX A 45

Rapid Hardening and Drying Internal Repair Mortar

DESCRIPTION

ARDEX A45 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 1½ hours at 20°C.

USE

ARDEX A45 is ideal for:-

- Repairing and refacing internal concrete stairtreads and risers, cement and sand screeds, concrete floors.
- Filling and patching cracks in walls, ceilings and soffits.
- Making good around pipework, door and window frames.
- Forming ramps from a feather edge to normal screed thicknesses.
- Forming coves.

If using ARDEX A45 as a wearing surface a suitable covering/coating is required.

PREPARATION

ARDEX A45 can be applied to dry or moist screeds 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 (wire brush, angle grinder etc.) to remove contamination and expose a clean surface to ensure good adhesion. Very dense, smooth impervious surfaces should be primed with ARDEX P82 Primer. Priming is not usually necessary on concrete, cement/sand, brickwork etc., unless the surface is extremely porous. Direct to earth sub-floors must have an effective damp proof membrane, such as ARDEX DPM.

MIXING

ARDEX A45 powder is added to the required amount of clean water in a clean mixing container and mixed thoroughly to obtain a lump free and slump resistant mortar.

The mix proportions are:-

11kg ARDEX A45 powder to 2½ 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 20°C, this time being extended at lower, and reduced at higher temperatures.

For thicknesses over 5mm, but not exceeding 20mm, the ARDEX A45 mortar can be bulked out with ⅓ volume of sharp sand (0-5mm grading), or up to an equal volume of 3mm single sized aggregate/chippings. For localised thicknesses exceeding 20mm, e.g. filling deep holes and cracks, incorporate up to an equal volume of 10mm single sized coarse aggregate, (BS 882 - 1992 table 3) in the ARDEX A45 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 ARDEX A45 repair has hardened, the surface of the floor, stairtread etc., can be levelled, if necessary, with the appropriate ARDEX sub-floor compound.

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 to 20 minutes to provide a finish suitable for direct application of floorcoverings. High aggregate content mixes may require a second application of ‘neat’ ARDEX A45.

Apply at temperatures above 5°C.

COVERAGE

Depending on the flatness of the surface, an 11kg bag will cover approximately 7m² at 1mm thick (7 litres of mortar).

PACKAGING

ARDEX A45 is packed in paper sacks incorporating a polyethelene liner - net weight 11kg or plastic tubs - net weight 5kg.

STORAGE AND SHELF LIFE

ARDEX A45 must be stored in unopened packaging, clear of the ground in cool dry conditions and be protected from excessive draught. If stored correctly, as detailed above, the shelf life of this product is 12 months from the date shown on the packaging.

PRECAUTIONS

ARDEX A45 is considered non-hazardous in normal usage. The presence of cement in the product gives an alkaline mortar which may cause some local irritation if prolonged contact with the skin takes place. Care should be taken to avoid inhalation or ingestion of dust and prevent contact with the eyes.

For further information, consult the relevant health and safety data sheet.

TECHNICAL DATA

Bulk density of powder	approx.	1.4kg/litre
Weight of fresh mortar	approx.	1.9kg/litre
Initial Set (Vicat)	approx.	15 minutes
DIN 1164		at 20°C
Final Set (Vicat)	approx.	60 minutes
DIN 1164		at 20°C

Compressive Strength (DIN 1164)

After 1 day	17.0 N/mm ²
After 3 days	20.0 N/mm ²
After 28 days	30.0 N/mm ²

Tensile Bending Strength (DIN 1164)

After 1 day	4.0 N/mm ²
After 3 days	4.5 N/mm ²
After 28 days	6.5 N/mm ²

Ball Pressure Hardness (Brinell)

After 1 day	55.0 N/mm ²
After 3 days	63.0 N/mm ²
After 28 days	80.0 N/mm ²

NOTE: 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.