



CI/SfB

(43) Yq2

JUNE 2014
(SUPERSEDES AUGUST 2012)
PRODUCT DATA SHEET

ARDURAPID

ARDEX A 45

Rapid Drying and Hardening Internal Repair Mortar



Features

- After application, ARDEX Levelling and Smoothing Compounds can be applied immediately
- Receives finishes after 90 minutes regardless of thickness
- Slump free - ideal for vertical and horizontal repairs
- Priming rarely required on prepared concrete and sand/cement screeds
- Ideal for the rapid repair of internal concrete, screeds, renders and concrete steps
- Other applications include forming ramps, falls and coves, patching around fittings/pipework, and filling cracks and gaps
- Suitable for use on heated concrete and screeds

RAPIDRY



Binds the mix water within the mortar, speeding drying and hardening times irrespective of application thickness



Reg No. FM 1207 EMS 565427

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ARDEX A 45

Rapid Drying and Hardening Internal Repair Mortar

DESCRIPTION

ARDEX ARDURAPID A 45 is a rapid drying and hardening, slump free mortar for internal repairs.

The mixed mortar sets after 15 minutes and can be trafficked after just 90 minutes regardless of thickness at 20°C.

USE

ARDEX ARDURAPID A 45 is ideal for:-

- Re-profiling, repairing and refacing internal concrete stairtreads and risers, cement and sand screeds and 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.

When using ARDEX ARDURAPID A 45 as a wearing surface a suitable coating is required.

SURFACE PREPARATION

ARDEX ARDURAPID A 45 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 P 4 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 1C.

MIXING

ARDEX ARDURAPID A 45 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 ARDURAPID A 45 powder to 2 $\frac{1}{2}$ 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.

The ARDEX ARDURAPID A 45 Mortar can be applied up to 20mm neat in isolated areas, but for economy ARDEX Coarse Aggregate or $\frac{1}{3}$ volume of coarse screeding sand can be added to the mix. For thicknesses over 20mm, and up to 50mm, for holes etc and equal volume of ARDEX Coarse Aggregate must be used.

For localised thicknesses exceeding 20mm e.g. filling deep holes and wide cracks, incorporate an equal volume of 10mm single sized coarse aggregate in the ARDEX ARDURAPID A 45 Mortar.

APPLICATION

Repairs

Apply the mortar with a trowel to holes, cracks, damaged and worn 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 ARDURAPID A 45 repair has hardened, the surface of the floor, stairtread etc., can be levelled, if necessary, with the appropriate ARDEX levelling and smoothing compound.

Smoothing and Refacing

Apply the mixed mortar with a trowel to the required thickness. 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 ARDURAPID A 45 or ARDEX FEATHER FINISH. Apply at temperatures above 5°C.

TECHNICAL DATA

PACKAGING

ARDEX ARDURAPID A 45 is packed in paper sacks incorporating a polyethylene liner - net weight 11kg.

COVERAGE

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

STORAGE AND SHELF LIFE

ARDEX ARDURAPID A 45 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 ARDURAPID A 45 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.

Bulk density of powder approx. 1.4kg/litre
Weight of fresh mortar approx. 1.9kg/litre
Initial Set (Vicat) DIN 1164

approx. 15 mins
at 20°C

Final Set (Vicat) DIN 1164

approx. 60 mins
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.

Country specific recommendations, depending on local standards, codes of practice, building regulations or industry guidelines, may affect specific installation recommendations.

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