



ARDEX A 45

Rapid Drying and Hardening Internal Repair Mortar

- ARDURAPID Technology *
- 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
- Suitable for use on heated concrete and screeds



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

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 A45 as a wearing surface a suitable coating is required.

SUBSTRATE PREPERATION

ARDEX 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.



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EN 13813:2002

ARDEX A 45

Cementitious screed for internal use
EN 13813:CT-C30-F7

Reaction to fire:	E
Release of corrosive substances:	CT
Water permeability:	NPD
Water vapour permeability:	NPD
Compressive strength:	≥ 30 N/mm ²
Flexural strength:	≥ 7 N/mm ²
Wear resistance according to BCA:	NPD
Sound insulation:	NPD
Sound absorption:	NPD
Thermal resistance:	NPD
Chemical resistance:	NPD

SELF DRYING



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ARDEX Turkey is a subsidiary of the international ARDEX Group.

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MIXING

ARDEX 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:

25 kg ARDEX 45 powder to 5,5 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 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 1/3 volume of coarse screeding sand can be added to the mix.

For thicknesses over 20mm, and up to 50mm, for holes etc., an equal volume of coarse screed sand 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 A 45 Mortar

APPLICATION

Repair

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 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 A 45. Apply at temperatures above 5°C.

PRECAUTIONS

ARDEX 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

Technical Data According to ARDEX Quality Standards

Mixing ratio:	5,5 lt. of water for 25 kg powder
Bulk density of powder:	approx. 1,4 kg/l
Weight of fresh mortar:	approx. 1,9 kg/l
Material requirement:	approx. 1,6kg toz/m ² -mm
Working time*:	approx. 15 minutes
Walkability*:	approx. after 60 minutes
Accepting coverings*:	approx. after 60 minutes
*Values calculated under lab conditions (+20°C room temperature 65% relative humidity). Weather and environmental conditions may affect the values. Higher temperatures and low humidity decreases the time required, whereas lower temperatures and high humidity increases it..	
Compressive strength:	After 1 day approx. 25.0 N/mm ² After 28 days approx 35.0 N/mm ²
Flexural strength:	After 1 day approx. 5.0 N/mm ² After 28 days approx 7.0 N/mm ²
Ball pressure hardness (Brinell):	After 1 day approx. 40.0 N/mm ² After 28 days approx 50.0 N/mm ²
Application temperature:	Above +5°C
Suitable to rolling chairs:	Yes
Suitable to underfloro heating:	Yes
EMICODE:	EC 1- Very low emission
GHS/CLP classification	GHS 05 "corrosive" Signal Word: "Danger"
GGVSEV/ADR classification	None
Packaging	25 kg paper bag
Storage and shelf life	ARDEX 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 month.