

A 45

Rapid drying and hardening internal repair mortar



DESCRIPTION

A 45 is a blend of cement, fillers, and special additives to produce a rapid drying slump-free mortar used for internal repairs. The mixed mortar does not need any water curing and sets after 15 minutes and can be trafficked after 90 minutes.

USES

- Repairing and refacing concrete stair treads/risers, concrete floors, cement and sand screeds
- 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.
- After application, ARDEX ENDURA Leveling and Smoothing Compounds can be applied immediately
- Suitable as a wearing course when used in conjunction with resin coatings

FEATURES

- Receives finishes after 90 minutes regardless of thickness
- Self-curing: attains strength without need for any additional curing procedures.
- Slump free: ideal for vertical, horizontal and overhead repairs
- Ideal for the rapid repair works
- Binds the mixed water within the mortar, speeding drying and hardening times

PHYSICAL PROPERTIES

A 45	@ 27 ± 1°C
Weight of fresh mortar	approx. 1.9kg/l
Initial set (Vicat) DIN 1164	approx. 15 minutes
Final set (Vicat) DIN 1164	approx. 60 minutes
Compressive Strength	
After 1 day	15.0 N/mm ²
After 7 days	30.0 N/mm ²
After 28 days	40.0 N/mm ²
Flexural Strength	
After 1 day	3.5 N/mm ²
After 7 days	4.5 N/mm ²
After 28 days	7.0 N/mm ²
VOC Content	10 g/L

COVERAGE ESTIMATES

Pack size	Coverage
11kg	Approximately 7 m ² @ 1 mm thickness (7 litres of mortar)

APPLICATION INSTRUCTIONS

Surface Preparation

A 45 can be applied to dry or moist screeds provided that the screed is 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.

Priming

Priming is not usually necessary on concrete, cement/sand screeds, etc., unless the surface is extremely dense/porous. In these situations, priming is required to be done with P 7 Primer.

Mixing

Add 3 parts of A 45 to 1 part of water by volume in a suitable clean mixing vessel and mix thoroughly to obtain a lump-free mortar. Avoid using too much water. The mixed mortar has a working time of 10 to 15 minutes, this time being extended at lower, and reduced at higher temperatures.

Note: For thicknesses over 5mm, but not exceeding 20mm, A 45 can be bulked out with 1/3 volume of sharp sand (0-5 mm grading). For localised thicknesses exceeding 20 mm, eg. filling deep holes, incorporate up to an equal volume of 10 mm single sized coarse aggregate.

Application

Apply the mixed mortar with a trowel to holes, cracks and damaged areas, ensuring that the mortar "wets" the surface by trowelling in firmly. 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 patch has hardened, surface can be levelled, if necessary, with an ARDEX ENDURA Leveling and Smoothing Compound.

CLEANING

A 45 can be removed from tools and equipment by washing in clean water immediately after use. Any hardened material will need to be removed mechanically.

STORAGE AND SHELF LIFE

A 45 has a shelf life of 12 months if kept in a dry, clean store between 5°C and 30°C in the original unopened packaging. The product should be protected from frost, away from direct sunlight and sources of heat.

PRECAUTIONS

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.

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DISPOSAL

Disposal of empty packaging should be in accordance with local waste disposal authority regulations. For further information please refer to the Material Safety Data Sheet.

CONDITIONS OF SALE

Sold subject to the Company's conditions of sale which are available on request.

NOTE

The information supplied in this datasheet is based upon extensive experience and 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.



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