



ARDEX A 46

High Strength, Multi-Purpose Repair Mortar

- Ideal for the rapid repair of damaged concrete
- Slump free – ideal for vertical and overhead repairs
- Apply from 2mm to 30mm thick
- For internal and external use
- Easy to smooth and float
- Shrinkage compensated, and crack free



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

DESCRIPTION

ARDEX A 46 is a rapid repair, slump free mortar which is ideal for external and internal repairs. The polymer modified mortar sets and hardens rapidly to give a repair of high performance, strength and hardness.

USE

ARDEX A 46 is ideal for the rapid repair and refacing of concrete surfaces. ARDEX A 46 should only be used for the non-structural repair of concrete.

ARDEX A 46 can be used for:

- Filling cracks, gaps and holes
- Repairing and refacing of concrete stairtreads and risers
- Damaged brickwork (not lightweight concrete)
- Damaged wall renders
- Making good on wall chases
- Filling and patching cracks in walls and floors
- Making good around pipework, door and window frames
- Forming ramps from 2mm to 30mm in thickness
- Forming coves for floors
- Repair soffits, beams and lintels

ARDEX A 46 may also be used as a wearing surface in lightly trafficked areas.

NOTE: When using aggregate filled mortars apply a neat layer of the ARDEX A 46 mortar to act as a bonding coat applied fresh in fresh.

ARDEX Baustoff GmbH Hürmer Straße 40 A-3382 Loosdorf Austria 13	
53080 EN 13813:2002 ARDEX A 46 Filling Mortar EN 13813:CT-C20-F5	
Compressive strength:	≥ 20 N/mm ²
Flexural strength:	≥ 5 N/mm ²
Abbrasion resistance according to Böhme	NPD
Bond strength:	NPD
pH value:	NPD
Reaction to fire:	E



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PREPARATION

ARDEX A 46 can be applied to dry or damp concrete, render, screeds and similar cement based surfaces providing they are hard and the surface is sound and free of dust, grease, oil and other barriers to adhesion. Priming is not usually necessary on concrete, cement/sand, renders and screeds, brickwork etc., unless the surface is extremely porous.

On absorbent substrates, the mortar must be initially applied firmly as a thin layer, (scratch coat) to achieve good adhesion before applying the mortar to the required thickness, fresh in fresh.

Worn or trafficked surfaces should be mechanically prepared to remove contamination and expose a clean and uncontaminated surface to ensure good adhesion.

MIXING

ARDEX A 46 powder is added to the required amount of clean water in a clean mixing container and mixed thoroughly to obtain a slump free mortar. The mix proportions are: Approximately 3 parts powder to 1 part water by volume. 25kg ARDEX A 46 powder to 6-7 litres of water. The mixed mortar has a working time of 15 to 20 minutes at 20°C, this time being extended at lower, and reduced at higher temperatures

APPLICATION

ARDEX A 46 can be applied from 2mm to 30mm in thickness.

For localised small repairs up to 50mm thick. ARDEX A 46 Mortar can be bulked out with 1/3 volume of sharp sand (0-5mm grading), or up to an equal volume of ARDEX Coarse aggregate or 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 in the ARDEX A 46 mortar.

ARDEX A 46 is moisture tolerant and frost resistant. Ideal for patch repairs prior to the application of a suitable ARDEX Damp Proof Membrane. For further information please contact ARDEX Technical Services Department. Apply ARDEX A 46 above 5°C.

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 approximately 10 minutes, at 20°C, or when sufficiently firm trim off excess and finish with a wet trowel, sponge or sponge float to obtain a smooth surface.

This smoothing operation needs to be completed within 15 minutes of application. As soon as the ARDEX A 46 repair has hardened, the surface of the floor, or wall surface, stair tread 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, taking into account the working time. The material may be finished with a wet trowel after 10 to 15 minutes, at 20°C, to provide a finish suitable for direct application of tiles or stone. The finished surface must be protected against direct sunlight and draughts, which could lead to the rapid drying of the surface.

Further applications of levelling compounds and moisture tolerant finishes, such as ceramic tiles can be applied in as little as 4 hours in good conditions. (20°C).

TECHNICAL DATA ACCORDING TO ARDEX QUALITY STANDARDS

Mixing ratio:	6-7 liters of water per 25kg bag
Bulk density:	approx. 1,3kg/L
Weight of fresh mortar:	approx. 1,8kg/L
Consumption:	approx. 1,4kg/m ² mm
Working time*:	approx. 15 - 20 minutes
Walkability*:	approx. after 2-3 hours
Ready to receive floor coverings*:	Non-moisture sensitive coverings after 1 day Other coverings, after sufficient drying up to 5mm, approx. 2 days up to 10mm, approx. 5 days up to 20mm, approx. 7 days up to 30mm, approx. 0 days

*All data is approximately based on laboratory test made at a temperature of +20°C and relative humidity of %65. Environmental conditions may change these values. Higher temperatures and lower relative humidity decrease these duration whereas lower temperature and higher relative humidity increases them.

Compressive strength:	After 1 day, approx. 10 N/mm ² After 7 days, approx. 15 N/mm ² After 28 days, approx. 20 N/mm ²
Tensile bending strength:	After 1 day, approx. 2.0 N/mm ² After 7 days, approx. 4.0 N/mm ² After 28 days, approx. 6.0 N/mm ²
Tensile strength:	After 7 days, >1,5 N/mm ²
pH value of fresh mortar:	approx. 12
Free-thaw resistance:	Yes
Resistant to chair castors:	Yes
Suitable for underfloor heating:	Yes
EMICODE:	EC 1 ^{plus} Very low emissions
GHS/CLP classification:	GHS 05 "Corrosive" Signal Word: "Danger"
GGVSEV/ADR classification:	None
Packaging:	25 kg paper bag
Storage and shelf life:	ARDEX A 46 must be stored in unopened packaging, clear of the ground in cool, dry conditions, and protected from excessive drafts. ARDEX A 46 must not be used after the end of the declared storage period. If stored correctly, as detailed above, use within 6 months of the date shown on the packaging.