



CI/SfB

(43) Yq2

JULY 2014
(SUPERSEDES MAY 2006)
PRODUCT DATA SHEET

ARDEX A 46

Multi-Purpose Repair Mortar

Features

- Ideal for the rapid repair of damaged concrete
- Sets within 30 minutes
- Slump free – ideal for wall and floor repairs
- Apply from 2mm to 50mm thick
- For internal and external use
- Easy to smooth and float
- Shrinkage compensated, and crack free



Reg No. FM 01207

EMS 565427

OHS 628374

ARDEX UK LIMITED
Homefield Road, Haverhill, Suffolk CB9 8QP UK.
Telephone: +44 (0)1440 714939
Fax: +44 (0)1440 716640
Email: technical_admin@ardex.co.uk
ARDEX online: www.ardex.co.uk

ARDEX A 46

Multi-Purpose Repair Mortar

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
- Repair soffits, beams and lintels

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

PREPARATION

ARDEX A 46 can be applied to dry or moist 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 part powder to 1 part water by volume.

5kg ARDEX A 46 powder to 1.2-1.4 litres of water.

11kg ARDEX A 46 powder to 2.7-3 litres of water.

Avoid using too much 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. *Small localised repairs can be applied up to 50mm.

For larger repairs or thicker applications, incorporate a suitable ARDEX aggregate. Apply ARDEX A 46 above 5°C.

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.

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 10 minutes, or when sufficiently firm trim off excess and finish off 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 sub-floor 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 to provide a finish suitable for direct application of tiles or stone. The finished surface has to be protected against direct sunlight and draughts which could lead to 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.

COVERAGE

Approximately 4m² at 2mm thick per 11kg bag.

Approximately 1.8m² at 2mm thick per 5kg bag.

1.4kg powder/m²/mm.

An 11kg bag of ARDEX A 46 will produce approximately 8 litres of mortar.

A 5kg bag of ARDEX A 46 will produce approximately 3.6 litres of mortar.

STORAGE AND SHELF LIFE

ARDEX A 46 contains a reducing agent to control the level of Chromium VI when mixed prior to use. ARDEX A 46 must be stored in unopened packaging, clear of the ground in cool dry conditions and protected from excessive draughts.

The activity of the reducing agent (added to control the level of soluble Chromium VI) will be maintained and this product will contain,

when mixed with water, no more than 0.0002% (2ppm) soluble Chromium VI of the total dry weight of the cement content of this product. 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.

PRECAUTIONS

ARDEX A 46 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.

PACKAGING

ARDEX A 46 is packed in paper sacks incorporating a polyethylene liner - net weight 5kg and 11kg.

TECHNICAL DATA

Bulk density of powder approx. 1.3kg/litre
Weight of fresh mortar approx. 1.8kg/litre
Working Time approx. 15 minutes



Compressive Strength

After 1 day 10.0 N/mm²
After 7 days 15.0 N/mm²
After 28 days 20.0 N/mm²

Tensile Bending Strength

After 1 day 2.0 N/mm²
After 7 days 4.0 N/mm²
After 28 days 6.0 N/mm²

Freeze thaw and salt resistant Yes
Suitable for underfloor heating Yes

 0370	
ARDEX UK LIMITED Homefield Road, Haverhill, Suffolk CB9 8QP UK 14 00054(CPR)2013 EN 15043 R2	ARDEX UK LIMITED Homefield Road, Haverhill, Suffolk CB9 8QP UK 13 00054(CPR)2013 EN 13813:2002 CT-C20-F5
ARDEX A 46 Polymer modified mortar (PCC) for non-structural concrete repair Reaction to Fire: F Release of dangerous substances: See SDS Compressive strength: ≥ 15 MPa Chloride ion content: ≤ 0.05 % Adhesive bond: ≥ 0.8 MPa Restrained shrinkage/expansion: ≥ 0.8 MPa Carbonation resistance: ok to control concrete (MC(0.45)) Thermal compatibility freeze/thaw: ≥ 0.8 MPa Coeff. of thermal expansion: NPD Capillary absorption: ≤ 0.2kgm ⁻² h ^{1/2}	ARDEX A 46 Local Repair Compound Reaction to Fire: E Release of dangerous substances: See SDS Compressive strength: C20 Flexural strength: F5 Wear resistance: NPD

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.

TECHNICAL ADVICE HELPLINE
01440 714939

ARDEX online
www.ardex.co.uk