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PRODUCT DATA SHEET

ARDEX K 11

Rapid Hardening Levelling and Smoothing Compound

Features

- Rapid hardening - walkable in 2½ hours regardless of thickness
- Free flowing mortar 1.5mm – 10mm
- Receives floorcoverings the next day
- Suitable for floors with underfloor heating
- Excellent surface finish even in thinner layers
- Suitable for use over traces of adhesive residues
- Ideal for use with all ARDEX flooring adhesives
- Can be applied by trowel or pump
- Low odour and high yield



Reg No. FM 01207

EMS 565427

OHS 628374

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ARDEX K 11

Rapid Hardening Levelling and Smoothing Compound

DESCRIPTION

ARDEX K 11 is a free flowing rapid hardening levelling and smoothing compound designed for levelling and smoothing a wide range of subfloor types including cement/sand screeds, gypsum screeds and concrete.

The mixed mortar can be applied up to a maximum thickness of 10mm in a single application but will retain its free-flowing properties at thicknesses of only 2mm to provide excellent coverage and material economy.

USE

ARDEX K 11 will level and smooth in a single application uneven internal subfloors prior to the installation of floorcoverings.

ARDEX K 11 dries to a virtually tension-free layer and can receive floorcoverings such as vinyl, linoleum, carpet, etc., after 16 hours under good conditions at 20°C, when applied up to 3mm thick.

SURFACE PREPARATION

The surface must be hard, sound and free of dust, dirt and other barrier materials such as grease, paint, adhesive residues or loosely adhered materials, etc. In all cases where traces of adhesive residues are present these must be sound, well adhered, unaffected by water and of sufficient strength to be able to support the ARDEX K 11.

NOTE: For internal use only.

Direct to earth subfloors must have an effective damp proof membrane (DPM). If the DPM is absent or damaged or the substrate is damp, please consult the ARDEX DPM 1 C datasheet or contact the ARDEX Technical Support Team for further information.

PRIMING

ALL SURFACES MUST BE PRIMED.

It is necessary to thoroughly prime concrete, cement/sand screeds and gypsum subfloors with ARDEX P 51 Primer and Bonding Agent. As a pore sealer ARDEX P 51 will maintain the flow life and prevent air bubbles rising through the applied ARDEX K 11 mortar.

ARDEX P 82 Primer and ARDEX P 4 Primer are both recommended for use on very smooth, dense and non-absorbent subfloors. e.g. ARDEX DPM's and smooth powerfloated concrete. Use a suitable degreaser to remove polish, wax, grease, oil and similar contaminating substances prior to use.

It is necessary to use all ARDEX primers strictly in accordance with the relevant product data sheet, to ensure adequate adhesion of the subsequently applied ARDEX K 11.

MIXING

Add the powder to the required amount of clean water in a clean mixing container whilst stirring thoroughly until a lump free mortar is produced.

Mixing proportions by volume are approximately:- 3½ parts ARDEX K 11 powder to 1 part clean water. Use 5.0 litres of water per 22kg bag. The use of an ARDEX mixing paddle with a 10mm chuck, variable speed electric drill makes light work of mixing.

APPLICATION

Pour the mixed ARDEX K 11 mortar onto the prepared subfloor and use a steel finishing trowel or ARDEX Pin Leveller to spread the mortar and finish off. The mixed mortar will flow out and self-smooth within the first 15 minutes of its 30 minute working time.

Apply at temperatures above 5°C. It is important to protect the freshly applied material from direct sunlight or through draughts as this may cause premature drying of the material which will adversely affect the ARDEX K 11.

ARDEX K 11 can be applied by pump up to a thickness of 10mm. Consult the ARDEX Technical Support Team for further information.

NOTE: Do not use ARDEX K 11 on asphalt subfloors - consult the ARDITEX NA® or ARDEX FA 20 data sheet for advice.

APPLICATIONS OVER UNDERFLOOR HEATING

The heated screed should have been laid in accordance with BS 8204 Part 1 and BS EN 1264. The underfloor heating system must be commissioned in accordance with the manufacturer's instruction manual and BS 8204 Part 1 and BS EN 1264-4. Once commissioned and thermally cycled, the underfloor heating system should be turned down to room temperature but not below 15°C before the installation of ARDEX K 11 and the final floorcovering. The underfloor heating system should then be gradually brought up to normal operating temperature to avoid rapid thermal shock and wide temperature variations.

THICKNESS

ARDEX K 11 can be applied from 1.5mm up to a maximum of 10mm in a single application. To utilise its free-flowing properties the minimum application thickness should be greater than 2mm.

A minimum thickness of 3mm should be used on a non-absorbent subfloor where an absorbent layer is required by the flooring adhesive.

NOTE: ARDEX K 11 is not designed for thick applications. Where the required application thickness exceeds 10mm consult the ARDEX K 15 HB datasheet or contact the ARDEX Technical Support Team.

DRYING AND HARDENING

A 3mm layer of ARDEX K 11 is walkable after 2½ hours will be sufficiently dry after 16 hours under good conditions, at 20°C, to receive floorcoverings. This time is extended at lower and reduced at higher temperatures.

A 5mm layer of ARDEX K 11 is also walkable after 2½ hours and ready to receive floorcoverings after 24 hours under similar conditions.

For thicknesses between 5 and 10mm, the product will be walkable in 2½ hours, but allow 48 hours to dry, before applying the final floorcovering. Where the installation of the floorcovering will be delayed for longer than 48 hours, the surface should be covered to provide temporary protection against surface damage and contamination.

Should the applied ARDEX K 11 require any subsequent levelling or smoothing work allow the ARDEX K 11 to completely dry, typically 24 hours for up to 5mm application thickness, prior to priming with ARDEX P 51 primer diluted 1:3 with water. Once the ARDEX P 51 primer has dried to a clear thin film the surface may be smoothed using ARDEX K 11 up to 5mm.

COVERAGE

ARDEX K 11 will cover approximately 7m² at 2mm thick.

PACKAGING

ARDEX K 11 is packed in paper sacks incorporating a polyethylene liner - net weight 22kg.

NOTE: For the latest technical or health and safety information on this product, consult the current technical or health and safety datasheet online at www.ardex.co.uk

ARDEX K 11 - Cementitious Screed Material for use Internally in Buildings EN 13813: CT-C30-F7.

STORAGE AND SHELF LIFE

ARDEX K 11 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.

TECHNICAL DATA

Bulk density of powder approx.	1.2kg/litre
Weight of fresh mortar approx.	1.9kg/litre
Working time at 20°C approx.	30 minutes

Compressive Strength

After 1 day	7.0 N/mm²
After 7 days	27.0 N/mm²
After 28 days	30.0 N/mm²

Tensile Bending Strength

After 1 day	2.0 N/mm²
After 7 days	5.0 N/mm²
After 28 days	8.0 N/mm²

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
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ARDEX online: www.ardex.co.uk