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PRODUCT DATA SHEET

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# ARDEX K 11

## Levelling and Smoothing Compound

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### Features

Receives floorcoverings the next day

Rapid hardening - walkable in 2<sup>1</sup>/<sub>2</sub> hours

Free flowing mortar 1.5mm – 10mm

Suitable for use over traces of adhesive residues

Can be applied by trowel or pump

Suitable for floors with underfloor heating

Ideal for use with all flooring adhesives

Low odour and high yield



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# ARDEX K 11

## Levelling and Smoothing Compound

### DESCRIPTION

ARDEX K 11 is a free flowing application levelling and smoothing compound designed for levelling and smoothing a wide range of subfloor types including cement/sand screeds, gypsum screeds and concrete. ARDEX K 11 contains high quality synthetic resins, special cements and selected fillers so that when mixed with water, a fluid, easily trowelled mortar with free-flowing properties is produced. The mixed mortar can be applied up to a maximum thickness of 10mm in one application but will still retain its free-flowing properties at a thickness of only 2mm to provide excellent coverage and material economy. The applied 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.

ARDEX K 11 can be applied by pump up to a thickness of 10mm and the long handled ARDEX smoothing trowel is an effective tool for spreading and smoothing the applied mortar.

**NOTE: Do not use on asphalt sub-floors - consult the ARDEX K 15 Rapid Drying Self-Levelling Floor Smoothing Compound data sheet for advice.**

### USE

ARDEX K 11 will level and smooth in a single application uneven internal sub-floors such as concrete, cement/sand screeds, gypsum screeds, etc., up to a maximum thickness of 10mm, prior to the installation of floorcoverings. For thicker applications to level very uneven sub-floors, remove cambers, etc., consult the ARDEX K 15 data sheet for advice.

### SURFACE PREPARATION

**NOTE:** For internal use only. Direct to ground sub-floors must be protected from rising damp.

The surface must be hard, sound and free of dust, dirt and other barrier materials such as grease, paint, excess adhesive residues or loosely adhered materials, etc. Where traces of adhesive residue remain, these must be sound, well adhered and non water softenable.

### PRIMING

It is necessary to thoroughly prime concrete, cement/sand screeds and gypsum sub-floors with ARDEX P 51 Primer and Bonding Agent as a pore sealer to maintain the flow life and prevent air bubbles rising through the applied ARDEX K 11 mortar. With very smooth, dense and non-absorbent sub-floors it is necessary to use ARDEX P 82 Epoxy Primer, strictly in accordance with the data sheet, to ensure adequate adhesion of the subsequently applied ARDEX K 11. For priming surfaces with traces of sound, non water softenable adhesive residue use ARDEX P 51 Primer and Bonding Agent mixed 1:1 with water. See Priming and Preparation leaflet for guidance. Use ARDEX P 82 Epoxy Primer on smooth, dense, non-absorbent sub-floors, e.g. ARDEX DPM, ARDEX DPM 1 C, ARDEX DPM 1 C R smooth powerfloated concrete. Use ARDEX DGR degreaser to remove polish, wax, grease, oil and similar contaminating substances.

### 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:-

3<sup>1</sup>/<sub>2</sub> parts ARDEX K 11 powder to 1 part clean water.

Use between 4.5 and 4.8 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 sub-floor and use a steel finishing trowel or float to spread the mortar and finish off. The mixed mortar will flow out and self-smooth within the first 15 minutes of its 30 minutes working time. A 5mm layer of ARDEX K 11 will be walkable after approximately 2<sup>1</sup>/<sub>2</sub> hours at 20°C. This time is extended at lower and reduced at higher temperatures. 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.

### 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 1.5mm should also be used on non-absorbent sub-floors where an absorbent layer is required by the flooring adhesive.

### DRYING AND HARDENING

A 3mm layer of ARDEX K 11 will be sufficiently dry after 16 hours under good conditions, at 20°C. A 5mm layer of ARDEX K 11 is walkable after 2<sup>1</sup>/<sub>2</sub> hours and ready to receive floorcoverings after 24 hours under similar conditions. For thicknesses between 5 and 10mm, allow 48 hours to dry. 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, or 48 hours for up to 10mm 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 the appropriate ARDEX smoothing/levelling compound.

**NOTE:** ARDEX K 11 is not designed for thick applications. Where the required application thickness exceeds 10mm consult the SYSTEMARDEX Commercial Flooring Brochure for advice on alternative ARDEX products and systems.

### PACKAGING

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

### PRECAUTIONS

ARDEX K 11 contains more than 20% Portland cement and, therefore, in line with current legislation, is classified as irritating to eyes and skin. For this reason the following precautions should be observed:- Avoid contact with skin and eyes; in case of contact with the eyes, rinse immediately with plenty of water and seek medical advice; wear suitable gloves and keep the product out of the reach of children. Avoid generation of airborne dust during mixing.

For further information, consult the relevant health and safety data sheet.

### STORAGE AND SHELF LIFE

12 months of the date shown on the packaging. ARDEX K 11 contains a reducing agent to control the level of Chromium VI when mixed prior to use. ARDEX K 11 must be stored in unopened packaging, clear of the ground in cool dry conditions and protected from excessive draught. If stored correctly, as detailed above, and used within 12 months of the date shown on the packaging, 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 K 11 must not be used after the end of the declared storage period.

### 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/mm <sup>2</sup>
After 7 days	27.0 N/mm <sup>2</sup>
After 28 days	35.0 N/mm <sup>2</sup>

### Tensile Bending Strength

After 1 day	2.0 N/mm <sup>2</sup>
After 7 days	5.0 N/mm <sup>2</sup>
After 28 days	8.0 N/mm <sup>2</sup>

Suitable for underfloor heating: Yes

### COVERAGE

Approximately 1.6kg ARDEX K 11 powder/m<sup>2</sup>/mm, e.g. one 22kg bag will cover approximately 7m<sup>2</sup> at 2mm thickness.

**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.