



ARDEX K 15-B

Pumpable Sub-Floor Smoothing Compound Base Mix

Pumpable bonded levelling screed

Apply from 7mm to 35mm in one operation

Rapid hardening - walkable in approximately 2 hours at 20°C, even with thick applications

Rapid drying - dry within 24 hours at 20°C, even with thick applications

Ceramic floor tiles can be fixed after 4 hours at 20°C

Can be hand mixed or pump applied

Strong - high compressive strength

RAPIDRY



FORMULA

What is the Rapidry Formula?

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



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Pumpable Sub-Floor Smoothing Compound Base Mix

DESCRIPTION

ARDEX K 15-B is an advanced and versatile base mix designed for applications from 7mm up to a maximum of 35mm. It is virtually tension free and is designed to rapidly level uneven, hard sub-floors. Used in conjunction with either ARDEX P 82 or ARDEX P 51 primers, ARDEX K 15-B can be applied to old sub-floors, e.g. concrete and other hard and rigid bases. ARDEX K 15-B is a grey powder consisting of special cements, graded aggregates and high quality synthetic resins. When mixed with water, a fluid, pumpable mortar is produced which can be applied to the required thickness in one operation. For thicknesses greater than 20mm it is possible to incorporate larger aggregate in the mixed mortar, thus giving significant cost savings for greater application thicknesses.

When applied at 20°C ARDEX K 15-B can normally be walked on after approximately 2 hours. The applied product dries and hardens rapidly so that even thick applications are ready to receive resilient floor finishes such as PVC within 24 hours. Ceramic floor tiles can be installed on top of ARDEX K 15-B as soon as the surface of the ARDEX K 15-B has attained sufficient strength and hardness, typically 4 hours after application at 20°C.

USE

ARDEX K 15-B will level internal sub-floors of concrete, cement/sand, etc. Applications include levelling tamped, uneven, damaged or rained-on in-situ concrete sub-floors, adjusting tolerances or camber problems between floors, slabs or pre-cast concrete as well as pre-levelling old sub-floors and screeds in renovation projects. ARDEX K 15-B is especially useful where the installation time of the floor finish must be kept to a minimum.

SUBSTRATE PREPARATION

The surface must be hard, sound and free of dust, dirt and other barrier materials such as paint, lime coatings, plaster and excessive adhesive residues etc. Use ARDEX DGR degreaser to remove polish, wax, grease, oil and similar contaminating substances. Laitance should be removed from concrete surfaces. Direct to earth sub-floors must have an effective dampproof membrane, such as ARDEX DPM. Contact our Technical Services Department for further information.

ALL SURFACES MUST BE PRIMED. ARDEX P 82 primer is recommended for use on smooth, non-absorbent

sub-floors. e.g. power coated concrete, smooth pre-cast concrete, asphalt and sound terrazzo, ceramic or quarry tile flooring. ARDEX P 82 primer should also be used on impervious sub-floors which have traces of sound adhesive residues. ARDEX P 51 primer should be used on porous or rough surfaces, e.g. cement and sand screeds, scabbled concrete etc. See Priming and Preparation Leaflet for correct dilution rates. Do not use ARDEX K 15-B on top of asphalt.

MIXING

To the required amount of clean water in a clean mixing container add the powder whilst stirring thoroughly until a lump free mortar is produced. The mixing proportions by volume are approximately:- 4 - 4.5 litres of clean water per 25 kg bag of ARDEX K 15-B. Use the minimum amount of water for thick applications or cold conditions.

The use of an ARDEX mixing paddle with a 10 mm chuck slow speed (600–1,000 r.p.m.) electric drill makes light work of mixing. Mixed ARDEX K 15-B should be applied within 30 minutes at 20°C. This time is extended at lower and reduced at higher temperatures.

APPLICATION

Pump or pour the mixed ARDEX K 15-B onto the prepared sub-floor. The mixed mortar will flow be workable for the first 15 minutes of its 30 minutes working time. Use a suitable spreader to obtain the required thickness. A long handled ARDEX gauging tool with height adjustment for thickness will simplify this operation. A long handled ARDEX smoothing trowel can be used for finishing off.

See the ARDEX tool catalogue for details.

NOTE: Depending upon the thickness of application and finish achieved, a final smoothing layer may not be necessary for coverings such as carpet, ceramic tiles, wood blocks, suspended timber floors etc. Prior to applying the smoothing layer of ARDEX K15, the surface of the ARDEX K 15-B should be treated as a porous and absorbent sub-floor.

THICKNESS

ARDEX K 15-B should be applied at thicknesses greater than 7mm to benefit from its levelling properties. When applying ARDEX K 15-B at thicknesses of over 20mm, aggregate may be incorporated. When applying ARDEX K 15-B to dense, impervious

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surfaces e.g. quarry tiles, primed with ARDEX P 82 primer, the thickness should not exceed 10mm in depth. Contact the ARDEX Technical Services Department for further information

NOTE: It is recommended that the final smoothing layer is applied within 48 hours, however, where the mortar is subjected to rapid drying conditions, e.g. direct sunlight or through draughts or where the installation of the floorcovering is delayed for longer than 48 hours, the surface should be covered.

COVERAGE

Approximately 1.84 kg ARDEX K 15-B powder/m²/mm, e.g. one bag will cover approximately 1.9m² at 7 mm thickness.

NOTE:

The coverage figure is based on a flat level surface, additional material should be allowed for where the surface is rough or uneven.

PACKAGING

ARDEX K 15-B is packed in paper sack incorporating a polyethylene liner - net weight 25 kg.

STORAGE

ARDEX K 15-B 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

Weight of fresh mortar	approx. 2.1 kg/litre
Working time at 20°C	approx. 30 minutes
Flow life at 20°C	approx. 15 minutes
Initial Set (Vicat)	approx. 30 minutes
Final Set (Vicat)	approx. 2 hours
Compressive Strength (DIN 1164)	
After 1 days	19 N/mm ²
After 7 days	27 N/mm ²
After 28 days	30 N/mm ²

Tensile Bonding Strength (DIN 1164)	
After 1 days	5 N/mm ²
After 7 days	6 N/mm ²
After 28 days	9 N/mm ²
Ball Pressure Hardness (Brinell)	
After 1 days	58 N/mm ²
After 7 days	70 N/mm ²
After 28 days	80 N/mm ²
Suitable for underfloor heating	Yes

SAFETY PRECAUTIONS

ARDEX K 15-B 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 Safety Data Sheet (SDS) available upon request and online at www.ardex-quicseal.com

DISCLAIMER

The technical datasheets are based on the latest information and given in good faith and represent the best of our knowledge and experience at the time of printing. They are primarily offered for user's consideration and evaluation. It is the responsibility of the user to conduct their own tests to validate the suitability of the products. It is also the responsibility of the user to ensure that the products are used and handled correctly and in accordance with any applicable standards, the product instructions and recommendations and only for the uses they are intended. As we have no control over site conditions and the execution of the work, we accept no liability for any loss or damage which may rise as a result thereof. We also reserve the right to update the information at any time without prior notice to you to reflect our ongoing research and development program.

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