



K 15

Rapid Drying Self-levelling Sub-floor Smoothing Compound

Features

Rapid hardening - walkable in approximately 2 hours

Rapid drying - receives floorcoverings within 24 hours regardless of thickness

Can be applied by trowel or pump

Strong, high strength

Rapidry Formula - It is the ability of the mortar to totally bind the water used for mixing

RAPIDRY



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

Indian Green Building Council
M E M B E R

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Rapid Drying Self-levelling Sub-floor Smoothing Compound

DESCRIPTION

K 15 is an advanced sub-floor smoothing compound. It is virtually tension free and is designed to rapidly level and smooth hard sub-floors prior to applying a floor finish. Used in conjunction with either ARDEX ENDURA P 82 or P 51 primers, K 15 can be applied to old sub-floors, e.g. floor screeds and other hard and rigid bases.

K 15 is a grey powder consisting of special cements and high quality synthetic resins. When mixed with water, a fluid, self-levelling mortar is produced which can be applied from a feather edge up to the required thickness in one operation. For thicknesses greater than 10mm, incorporate ARDEX ENDURA aggregate in the mixed mortar, K 15 can normally be walked on after approx. 2 hours at $27 \pm 1^\circ\text{C}$ and dries and hardens rapidly so that even thick applications are ready to receive floorcoverings within one day at $27 \pm 1^\circ\text{C}$.

USE

K 15 will level and smooth, in a single application, internal sub-floors of concrete, cement/sand, quarry tiles, etc., prior to the installation of floor coverings. Applications include smoothing tamped, uneven, damaged or rained-on insitu concrete sub-floors, adjusting tolerances or camber problems between floors, slabs or pre-cast concrete as well as smoothing old sub-floors and screeds in renovation projects. K 15 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 grease, paint, lime coatings, plaster and excessive adhesive residues, etc.

Use a suitable Degreaser to remove polish, wax, grease, oil and similar contaminating substances. Latiance should be removed from concrete surfaces. Direct to earth sub-floors must have an effective damp proof membrane.

PRIMING

ARDEX ENDURA P 82 primer is recommended for use on smooth, non-absorbent sub-floors e.g. power floated concrete, smooth pre-cast concrete, asphalt and sound terrazzo, ceramic or quarry tile flooring. ARDEX ENDURA P 82 primer should also be used on impervious sub-floors which have traces of sound adhesive residues. ARDEX ENDURA P 51 primer should be used on porous or rough surfaces, e.g. cement and sand screeds, scabbled concrete etc. Where porous and absorbent sub-floors, e.g. cement and sand screed, have traces of sound adhesive residues use ARDEX ENDURA P 51 primer diluted with an equal volume of water.

MIXING

To the required amount of 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:-

3½ parts K 15 powder into 1 part clean water.

5 - 5½ litres of water per 22kg bag. Use the minimum amount of water for thick applications or cold conditions.

The use of an mixing paddle with a 10 mm chuck slow speed (600 - 1,000 r.p.m.) electric drill makes light work of mixing.

Mixed K 15 should be applied within 30 minutes at $27 \pm 1^\circ\text{C}$. This time is extended at lower and reduced at higher temperatures.

APPLICATION

Pour the mixed K 15 onto the prepared sub-floor. The mixed mortar will flow out and self-level above 3mm during the first 15 minutes of its 30 minutes working time. Use a suitable spreader to obtain the required thickness. A long handled gauging tool with height adjustment for thickness will simplify this operation. A long handled smoothing trowel can be used for finishing off. A steel finishing float can be used for feather edging and touch up work. Apply at temperatures above 5°C .

THICKNESS

K 15 should be applied at thicknesses greater than 3 mm to benefit from its self-levelling properties. Note non-absorbent sub-floors, e.g. flooring grade asphalt, must be levelled with at least 3 mm of the smoothing compound. Note: no more than 6 mm of K 15 should be used on top of asphalt.

When applying K 15 at thickness of over 10 mm, incorporate up to an equal volume of 3 mm single sized chippings. For thicknesses exceeding 20 mm up to 35 mm, up to an equal volume of 3 - 8 mm aggregate may be used.

Mix the K 15 as above and add the aggregate without further addition of water. For thicknesses greater than 7mm up to 35 mm thick it is preferable, more convenient, as well as economical to use K 15 - B (Base coat) and subsequently apply a 3mm smoothing layer of K 15.

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

SPECIFIC APPLICATIONS

Where large sub-floors require levelling with K 15 it may be advantageous to use a pump to mix and place the K 15 mortar.

CLEANING

K 15 can be removed from tools and equipment by washing in clean water immediately after use. Any hardened material will need to be removed mechanically.

PROPERTIES

The values shown are typical of results obtained in the laboratory at $27 \pm 1^\circ\text{C}$. Actual performance values obtained on site may vary from those quoted.

PHYSICAL PROPERTIES

K 15	@ $27 \pm 1^\circ\text{C}$
Bulk density of powder	approx. 1.1kg/litre
Weight of fresh mortar	approx. 1.9kg/litre
Working time	approx. 30 minutes
Flow life	approx. 15 minutes
Initial Set (Vicat)	approx. 30 minutes
Final Set (Vicat)	approx. 2 hours
Compressive Strength	
According to EN 196	
1 day	approx. 18 N/mm ²
7 days	approx. 27 N/mm ²
28 days	approx. 35 N/mm ²

Flexural Strength

According to EN 196	
1 day	approx. 3.9 N/mm ²
7 days	approx. 5.7 N/mm ²
28 days	approx. 8.8 N/mm ²

Ball Impact Hardness

After 1 day 5.5 mm

Scratch Hardness

After 1 day 1.2 mm

VOC Content

9 g/L

COVERAGE ESTIMATES

Pack size	Coverage
22kg	Approximately 5m ² @ 3mm thickness

NOTE: These figures are theoretical, due to the wastages and the variety and nature of substrates practical coverage figures may be reduced.

STORAGE AND SHELF LIFE

K 15 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.

PRECAUTIONS

K 15 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.

DISPOSAL/SPILLAGE

Spillage of any of the component products should be absorbed onto sand or other inert materials and transferred to a suitable disposable vessel. Disposal of such spillage or empty packaging should be in accordance with local waste disposal authority regulations.

For further information please refer to the Product Safety Data Sheet.

CONDITIONS OF SALE

Sold subject to the Company's conditions of sale which are available on request.

NOTE

The information supplied in this datasheet is based upon extensive experience and 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.