ARDEX K 35

Commercial Smoothing and Levelling Compound

Rapid drying for early utilisation

Superior self-smoothing property

Easy to use - can be pump or trowel applied

Higher compressive strength

Protein-free

MANAGEMENT SYSTEM CERTIFICATION
DNV
ISO 9001 · ISO 14001

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ARDEX K 35

Commercial Smoothing and Levelling Compound

SPECIFICATION CLAUSE

All indicated subfloors will be prepared with ARDEX K 35 high strength, rapid drying self-levelling and self-smoothing compound manufactured by ARDEX -QUICSEAL Singapore Pte. Ltd. Where applicable, a damp proof membrane such as ARDEX WPM 300 shall be installed prior to the installation of ARDEX K 35. All in accordance with the manufacturer's printed literature.

DESCRIPTION

ARDEX K 35 has been especially designed to produce rapid drying self-levelling and smoothing underlayment when applied to absorbent and non-absorbent subfloors. ARDEX K 35 contains high quality synthetic resins, special binder 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 from min. 2 mm to maximum thickness of 10 mm in one application. For thickness more than 10 mm and up to 20mm, two applications at 10mm each are required. The product can be mixed with dry clean screed sand (3-5mm) for a base mix thickness of more than 15mm up to 50mm in one application, top up with 2 - 3mm of ARDEX K 35 prior to laying the floor covering.

USE

ARDEX K 35 should be used to level and smooth uneven internal subfloors such as concrete, cement/ sand screed prior to the installation of resilient flooring. ARDEX K 35 has been formulated to cater for the high humidity and high ambient temperature that are typical in tropical climates.

SURFACE PREPARATION

Restrictions: Not suitable for exposed wearing surfaces. For internal use only. Direct to ground subfloors 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, flooring adhesives residues etc. Mechanically grind the concrete to remove the containments and to open the pore of the concrete. NOTE: If the floor is damp through construction moisture or rising damp, use suitable ARDEX moisture vapour barrier prior to the application of ARDEX K 35.

PRIMING

Priming is mandatory especially onto very absorbent subfloors such as concrete or cement/sand screeds. Use ARDEX P51 primer to seal the pores, to prevent air bubbles from rising through the applied mortar, to maintain floor life and also to promote excellent uniform adhesion to the substrate. With very smooth, dense and non-absorbent subfloors, it may be necessary to use ARDEX P82 primer to ensure adequate adhesion of the subsequently applied ARDEX K 35.

MIXING

Use an ARDEX mixing paddle with a 10mm chuck and a variable speed drill to ensure thorough mixing with maximum sheer yet minimum air entrapment and heat build-up. The use of ARDEX mixing buckets is recommended to reduce the incidence of unmixed powder around the bottom of the bucket.

Always add the correct measured clean water to a clean mixing bucket first: ARDEX K 35 powder should be added whilst stirring slowly. Mix steadily and thoroughly for a minute. Scrape down the sides and around the bottom of the bucket to ensure no deposits of dry powder. Continue mixing for another minute until an even lump free consistency is achieved. A 25kg bag of ARDEX K 35 should mix with 5.5 to 6 litres of clean water.

APPLICATION

Pour mixed ARDEX K 35 onto the primed subfloor and use a steel finish trowel or float to spread the mortar and finish off within 15 min of its 20 minutes working time. Using spiked roller will help to eliminate entrapped air and smooth out the trowel lines to provide a more uniform surface. Application temperature range 10°C to 35°C.

Do not overwork the material, especially when the material starts to set.

DRYING AND HADENING

Drying is dependent on the absorbency of the subfloor, humidity and ambient temperature.

A 3 mm layer of ARDEX K 35 is walkable after 3 hours and ready to receive floor coverings overnight (min. 16 hrs) at 30°C.

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COVERAGE

A bag of ARDEX K 35 (25kg) will cover approximately 5m^2 at a thickness of 3mm. Consumption per mm thickness is 1.65kg/m^2.

PACKAGING

ARDEX K 35 is packed in multilayer paper sack incorporating a polyethylene liner- net weight 25kg.

STORAGE

ARDEX K 35 should be stored under the same conditions as cement; store ARDEX K 35 in cool, dry shaded warehouses. ARDEX K 35 should not be stored in direct contact with the floor. Whan stored under the correct conditions, ARDEX K 35 will have a shelf life of 6 months. 50% RH.

SAFETY PRECAUTIONS

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. Consult the relevant Safety Datasheet for further information (available upon request and online at www.ardex-quicseal.com).

TECHNICAL DATA

Bulk density of powder:	approx. 1.1 kg/litre
Weight of fresh mortar:	approx. 2.0 kg/litre
Working time at 30^{0}C:	approx. 20 minutes
Initial set (Vicat):	approx. 40 minutes
Final Set (Vicat):	approx. 80 minutes
Walkability time:	3 hours at 30^{0}C, 50% RH
Compressive Strength (DIN 1164)	
After 1 day:	approx. 20 N/mm^2
After 7 days:	approx. 27 N/mm^2
After 28 days:	approx. 35 N/mm^2
Tensile Bending Strength (DIN 1164)	
After 1 day:	approx. 3 N/mm^2
After 7 days:	approx. 5 N/mm^2
After 28 days:	approx. 8N/mm^2

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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