



ARDEX K 310

Self-smoothing compound as underlayment

Single Component

Excellent adhesion

Fast-drying for early utilisation

Superior self-levelling and smoothing properties

User-friendly

Low odour

Long working time

Good storage stability under warehouse condition

Green Label certified

ARDEX SINGAPORE PTE LTD
26 Tuas Ave 4 Singapore 639376
Telephone: +65 6861 7700
Fax: +65 6862 3381
Email: sales@ardex.com.sg
Website: www.ardex.com.sg

ARDEX K 310

Self-Smoothing Compound as underlayment

DESCRIPTION

ARDEX K 310 is a single component, low odour, rapid setting, self-levelling and smoothing compound with built-in synthetic latex polymer. Suitable for preparing interior prior to laying parquet, vinyl sheet and tile, soft coverings, natural stone, ceramic tiles, etc. It can be used on a wide range of absorbent and non-absorbent substrates including concrete, cement, sand screeds and ceramic.

USE

ARDEX K 310 is used for smoothing concrete or screed before the installation of vinyl & rubber sheets, tiles, paving slabs, levelling of old and worn concrete screeds.

BENEFITS

- Single component (just mix with water)
- Excellent adhesion to primed substrates
- Fast-drying for early utilisation (rapid setting and early strength)
- Superior self-levelling and smooth property
- User-friendly
- Low odour
- Long working time
- Good storage stability under warehouse condition

SUBSTRATE PREPARATION

The substrate must be dry, clean and sound, free of dust, loose particles, grease or any other contaminants. Surfaces should be smooth and free from honeycomb cracks, protrusions or voids. Concrete surfaces should be free from laitance which, if present, should be removed by scabbling or grit blasting to produce a sound surface. After cleaning, the floor must be swept free of dust and damped down with water to satisfy the natural absorption. Pools of water must be dispersed. All joints must be raked out and filled with a stiff mix of smoothing compound.

PRIMING

Prime with ARDEX P 51 for concrete/sand screed or ARDEX P 82 for impervious substrates.

MIXING

Add 5.5 - 6 L of clean water to a suitable mixing bucket and smoothly add the ARDEX K 310 powder. Mix steadily and thoroughly with an electric drill (min. 680 rpm) until a lump-free, fluid mortar is produced. After approx. two minutes mixing, 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 consistency is achieved. The mixed material is immediately ready to use and should be used within 10 minutes after mixing.

APPLICATION

Pour the mixed material onto the floor immediately after mixing and spread with wide sweeping strokes using a plasterer's plastic or steel float. Use pressure and work well into the corners and around projections. Leave a neat edge for subsequent batches. Subsequent mixes should be poured into the wet edges of the previous mix. Old and partially set material must be scraped up and discarded.

THICKNESS

It can be laid at depths from 3 mm up to 8 mm in one application. For 9-10 mm, incorporate up to an equal volume for 3 mm single sized quartz sand. For thickness exceeding 20 mm up to 35 mm, up to an equal volume of 3-8 mm aggregate may be used. Use the water ratio of approx. 22 - 24% to ARDEX K 310 and the aggregate without further addition of water

DRYING TIME

Light foot traffic allowed after approx. 3 hours. Ready for floor coverings after 48 hours at a thickness of 3 mm.

COVERAGE

Depending on the roughness and surface profile of the floor, the application thickness is 3mm and the coverage will be approx. 5 m² per 25 kg bag.

STORAGE

ARDEX K 310 should be stored under the same conditions as cement; store ARDEX K 310 in cool, dry shaded warehouses. ARDEX K 310 should not be stored in direct contact with the floor.

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When stored under the correct conditions ARDEX K 310 will have a shelf life of 6 months.

TECHNICAL DATA

Form:	grey powder
Working time at 30°C:	approx. 25-30 minutes
Flow life at 30°C:	approx. 10 minutes
Initial setting time:	approx. 60 minutes
Final setting time:	approx. 90 minutes
Walkability:	approx. 3 hours
Compressive Strength	
24 hours:	$\geq 8 \text{ N/mm}^2$
7 days:	$\geq 22 \text{ N/mm}^2$
28 days:	$\geq 28 \text{ N/mm}^2$
Flexural Strength	
1 day:	$\geq 1 \text{ N/mm}^2$
7 days:	$\geq 4 \text{ N/mm}^2$
28 days:	$\geq 5.1 \text{ N/mm}^2$

SAFETY PRECAUTIONS

ARDEX K 310 contains more than 20% cement and is therefore 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. Additional information is in the Material Safety

Data Sheet (MSDS) available upon request and online at www.ardex.com.sg

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 arise 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.

Offices in Southeast Asia:

Malaysia:

ARDEX MANUFACTURING SDN BHD (669180-X)
No.35-1, Jalan Puteri 2/3, Bandar Puteri, 47100,
Puchong, Selangor, Malaysia
Tel: +603 8069 1139 Fax: +603 8052 3223
Email: sales@ardex.com.sg

Thailand:

ARDEX (THAILAND) CO., LTD
969 Moo 13, Soi 45, Bangna-Trad Road
Bangkaew, Bangplee, Samutprakarn 10540 Thailand
Tel: +66 2316 3069 Fax: +66 2316 3075
Email: sales@ardex.co.th

Vietnam:

Mobile: +84 901 351 308
Email: sales@ardex.com.sg