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# ARDEX CL 312

## Universal Floor Leveller

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Single Component

Excellent adhesion

Fast-drying for early utilisation

Superior self-levelling, smoothing properties

User-friendly

Green Label certified



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**ARDTEX-QUICSEAL SINGAPORE PTE. LTD.**

26 Tuas Ave 4 Singapore 639376

Telephone: +65 6861 7700

Fax: +65 6741 4666

Email: sales@ardex-quicseal.com

Website: www.ardex-quicseal.com

# ARDEX CL 312

## Universal Floor Leveller

### DESCRIPTION

ARDEX CL 312 is a one-part, fast setting, self-smoothing compound with built-in synthetic latex polymer. Suitable for preparing interior floors prior to laying sheet and tile soft floor coverings, natural stone and ceramic tiles. It can be used on a wide range of absorbent and non-absorbent floor surfaces including concrete, cement and sand screeds, terrazzo, asphalt, quarry tiles and old but sound adhesive residues. It can be laid at depths from a feather edge up to 5mm and from 5mm-20mm with the addition of 3mm granite chippings.

### USE

ARDEX CL 312 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, smoothing properties
- User-friendly: easy and quick to lay

### SURFACE PREPARATION

Floor surfaces must be dry, sound, clean and free from dust, grease and other contaminants. If the floor is damp ask your ARDEX representative to check the floor for moisture and to recommend a suitable damp proof membrane system such as ARDEX WPM 300. Substrate should be smooth and free from honeycombs, protrusions or voids. Concrete surfaces should be free from laitance which, if present, should be removed by scrubbing or grit blasting to produce a sound surface. After cleaning, the floor must be swept free of dust. All cracks must be raked out and filled with suitable repair mortar.

### PRIMING

Priming is a critical part of a successful installation. The correct primer must be selected according to whether the substrate is porous such as concrete, sand/cement screeds or non-porous such as epoxy moisture barrier or tiles. On porous substrates, the primer must be applied thoroughly

in one or two applications; this is determined by the actual site porosity.

Typically, one coat of ARDEX P 51 diluted 1:3 is sufficient. On highly porous substrates use at least two coats of ARDEX P 51; diluted 1:3 first then diluted 1:1. The first primer must fully dry for 4-6 hours before the second coat is applied. Test the substrate porosity by spreading water before installing the levelling compound. The primer will seal the surface to prevent air bubbles from rising into the levelling compound and will also promote adhesion to the substrate. Always refer to the technical data for the selected primer for full and detailed installation guidelines.

### MIXING

Measure the required cool, clean water (max 6 L/25 kg bag) and add to a suitable mixing bucket. Always add powder to water. Mix thoroughly with a high speed grout paddle until a smooth mortar is obtained. After one minute mixing, pause to scrape down the sides and corners of the mixing bucket; continue mixing for another minute. The mixed material is immediately ready to use and should be used within 10 minutes after mixing.

### APPLICATION

Prime surface as required. Gradually add powder to clean water and mix until a lump-free consistency is achieved. Pour the mix over the area to be levelled and spread to the required depth using a steel trowel. For thicknesses between 5mm and 20mm, bulk out the mix with an equal volume of mixed compound and 3mm granite chippings. Trowel until a smooth surface is achieved. The new surface should be hard enough to walk on after 3-4 hours depending on the thickness of application and site conditions. At 20°C, a 3mm thickness of ARDEX CL 312 will be ready to receive ceramic floor coverings after 4 hours and soft coverings after 24 hours.

### COVERAGE

Depending on the roughness and surface profile of the floor, the application thickness is 3mm and the coverage will be approx. 5m<sup>2</sup> per 25kg bag.

### PACKAGING

ARDEX CL 312 is packed in a 25kg paper bag.

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### TECHNICAL DATA

Form:	grey powder
Working time at 30°C:	approx. 25 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:	≥ 8 N/mm <sup>2</sup>
7 days:	≥ 22 N/mm <sup>2</sup>
28 days:	≥ 28 N/mm <sup>2</sup>
Flexural Strength	
1 day:	≥ 1 N/mm <sup>2</sup>
7 days:	≥ 4 N/mm <sup>2</sup>
28 days:	≥ 5.1 N/mm <sup>2</sup>

### STORAGE AND SHELF LIFE

Store in dry internal above ground conditions, between 5°C and 30°C. The shelf life is approx. 6 months.

### SAFETY PRECAUTIONS

This product may cause irritation and an allergic reaction to the skin. It may cause serious eye injury and irritation to the respiratory system. In case of contact with the eyes, rinse with running water (15mins) including removal of contaminated clothing. Wear protective gloves, clothing, eye and face protection. Avoid inhaling dust/fume/gas/mist/vapours/spray. Ensure adequate ventilation during mixing and application. Keep out of the reach of children. Additional information is in the Safety Data Sheet (SDS) available upon request online at [www.ardex-quicseal.com](http://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 prod-

ucts 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.

#### Offices:

##### Malaysia:

ARDEX QUICSEAL MALAYSIA SDN. BHD.

No. 35-1, Jalan Puteri 2/3, Bandar Puteri,

47100, Puchong, Selangor Darul Ehsan

Telephone: +603 8069 1139

Telefax: +603 8052 3223

Email: [sales@ardex-quicseal.com](mailto:sales@ardex-quicseal.com)

##### Thailand:

ARDEX (THAILAND) CO., LTD

969 2nd Floor, Moo 13, Soi 45, Bangna-Trad Road

Bangkaew, Bangplee, Samutprakarn 10540 Thailand

Telephone: +66 2316 3069 Fax:+66 2316 3075

Email: [sales@ardex.co.th](mailto:sales@ardex.co.th)

Website: [www.ardex.co.th](http://www.ardex.co.th)

##### Vietnam:

Mobile: +84 901 351 308

Email: [sales@ardex-quicseal.com](mailto:sales@ardex-quicseal.com)

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