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PRODUCT DATA SHEET

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# ARDEX K 301

## Exterior Self Levelling Concrete Resurfacing Compound

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### Features

- Flowable Cementitious Levelling and Repair Mortar - for the repair and levelling of rough or damaged concrete
- Suitable for internal and external applications onto concrete and bonded cement/sand screeds
- For smoothing and resurfacing paths, drives, parking areas, courtyards, etc.
- Fast setting - walkable after 2-3 hours
- Rapid hardening - can withstand light vehicular traffic after 48 hours
- Easy to mix and apply – pumpable
- Apply from 2mm to 20mm thick in a single application
- Can be painted or used with suitable resin coatings



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# ARDEX K 301

## Exterior Self Levelling Concrete Resurfacing Compound

### DESCRIPTION

ARDEX K 301 is a Fast Setting Resurfacing and Levelling Compound for Concrete. ARDEX K 301 is a grey powder consisting of special cements, graded aggregates and high quality synthetic resins. When mixed with water, a fluid mortar is produced which sets after approximately 1 hour and can normally be walked on after 2-3 hours at 20°C. ARDEX K 301 can be applied from 2mm to 20mm in a single application. The set and hardened ARDEX K 301 is usually ready to receive light rubber wheeled traffic after 48 hours at 20°C.

### USE

ARDEX K 301 will smooth and level concrete surfaces such as balconies, patios, domestic driveways, garages, walkways and other concrete surfaces exposed to normal foot and rubber wheeled traffic. ARDEX K 301 can also be used for filling holes and resurfacing damaged floors, such as concrete or a bonded cement/sand screed (>30N/mm<sup>2</sup> compressive and 1.5N/mm<sup>2</sup> pull off), as well as pre-smoothing concrete floors prior to the application of a suitable damp proof membrane, such as ARDEX DPM 1 C/1 CR.

**NOTE:** ARDEX K 301 is not recommended for heavy duty industrial floors, public highways or traffic with solid or metal wheels. ARDEX K 301 is suitable for permanently wet areas and may be used in swimming pools where it can be tiled onto directly. ARDEX K 301 is not recommended for areas of intensive abrasive use in wet areas. Do not apply ARDEX K 301 over asphalt or tarmacadam surfaces.

The hardened ARDEX K 301 should be protected from spillages and materials which damage concrete surfaces. If required, the dried ARDEX K 301 can receive suitable paints or coatings such as ARDEX WPM 200.

### SURFACE PREPARATION/PRIMING

All concrete surfaces should be mature i.e. at least 6 weeks old. The concrete surface must be hard, sound, thoroughly cleaned, free of all oil, grease, curing compounds and other barriers to adhesion. The substrate can be dry or damp. **ARDEX K 301 may be unsuitable for aged or frost damaged concrete subject to regular deflection from thermal cycling or mechanical loading.**

Use ARDEX Degreaser to remove oil, grease or similar contaminants and rinse well prior to mechanical preparation. All surfaces must be prepared as necessary to ensure good adhesion. The prepared surface must have the appearance of clean sound concrete with some exposed aggregate in the surface. There must be no traces of any dirt, previous treatments or surface contamination.

Sufficient and thorough mechanical preparation is essential for commercial areas, especially those intended for exposure to regular or intensive rubber wheeled traffic, or heavy loading. Vacuum the prepared surface to remove all dust and debris, and ideally wash the surface using high pressure water jet equipment. All cracks in new and old concrete can be repaired to inhibit cracking in the ARDEX K 301 with ARDEX EP 2000 (refer to the ARDEX EP 2000 datasheet).

Any structural, movement or live joints must be carried through the ARDEX K 301 to the surface.

For internal applications prime the surface with ARDEX P 51 Primer diluted 1:1 on absorbent or 1:0.5 on non-absorbent substrates. Dilute with clean water, and apply with a brush or broom. Any ponding, puddles or surface water must be removed with a broom so that excess primer is not incorporated in the mortar during application. Let the primer dry before ARDEX K 301 is applied

For external applications prime with ARDEX P 51 Primer diluted 1:7 with clean water, and applied with a brush or broom. Ponding, puddles or surface primer must be removed with a broom so that excess water is not incorporated in the mortar during application. Apply the ARDEX K 301 whilst the priming layer is still damp.

In all areas subjected to regular rubber wheeled traffic or heavy loading, and on dense surfaces, ARDEX R 3 E Solvent Free Epoxy Primer should be used to prime, sand blinding the surface with ARDEX Fine Aggregate while still wet. The surface must be allowed to cure and excess sand removed before applying ARDEX K 301.

### MIXING

In a clean mixing container add the powder to the required amount of clean water whilst stirring thoroughly until a lump free mortar is produced. The mix proportions by volume are approximately 5 parts ARDEX K 301 powder to 1 part clean water.

A 25kg bag requires 5¼ litres of water.

If gradient levelling has to be carried out, or a broomed finish required, the water content must be reduced. To pump the mortar, use continuous pumps with a capacity of 20-40 litres of mortar per minute.

Do not use excess water as this will reduce the strength of the set and hardened mortar.

The use of an ARDEX mixing paddle with a 10mm chuck slow speed (600 - 1000 r.p.m.) electric drill makes light work of mixing.

ARDEX K 301 mortar should be applied within 30 minutes at 20°C. This time is extended at lower temperatures and reduced at higher temperatures.

### APPLICATION

Pour the mixed ARDEX K 301 onto the prepared and primed substrate. The mixed mortar will flow out and self-smooth during the first 10 minutes of its 30 minute working time. Spread the mortar using a steel trowel or float. For larger areas its recommended to use a gauging tool with thickness height adjustment to spread the mortar.

The applied ARDEX K 301 surface can be left with a trowelled finish. Alternatively, to create a more non-slip finish, the water content should be reduced and then 'broom finished' once the initial set has occurred (approximately 40 minutes under normal conditions).

Once set, the freshly applied ARDEX K 301 must be protected from adverse climatic conditions e.g. rapid drying air flow, direct strong sunlight, frost, etc., or appropriate curing measures taken until hardened.

Apply at temperatures above 5°C.

If a second layer of ARDEX K 301 is required, this should be applied after the first layer has fully hardened. The first layer should be machine sanded (paper 16 to 36), cleaned and primed with ARDEX P 51 Primer diluted 1:1 with water for dry indoor use, and diluted 1:7 with water for external use or damp interior areas. The dilution rate of 1:7 should not be exceeded for external applications

### THICKNESS

ARDEX K 301 can be applied neat from 2mm to 20mm thick.

**NOTE:** The thickness of combined layers should not exceed 20mm.

### COVERAGE

Approximately 1.6kg ARDEX K 301 powder/m<sup>2</sup>/mm, i.e. approximately 3.0m<sup>2</sup> at 5mm thickness per 25kg bag.

### PACKAGING

ARDEX K 301 is packed in paper sacks incorporating a polyethylene liner - net weight 25kg.

### STORAGE AND SHELF LIFE

ARDEX K 301 must be stored in unopened packaging, clear of the ground in cool dry conditions and protected from excessive draught. If stored correctly, the shelf life is 12 months from the date of the packaging.

**Note:** For the latest technical or health and safety data on this product, consult the current technical or health and safety datasheet online at [www.ardex.co.uk](http://www.ardex.co.uk)

### TECHNICAL DATA

ARDEX K 301 – Cementitious screed material of use internally and externally  
EN 13813: CT-C30-F7-A22

Bulk density of powder approx. 1.37kg/litre  
Weight of fresh mortar approx. 1.94kg/litre

Initial Set (Vicat) approx. 40 minutes  
Final Set (Vicat) approx. 2 hours

#### Compressive Strength

After 7 days 20.0 N/mm<sup>2</sup>  
After 28 days 30.0 N/mm<sup>2</sup>

#### Tensile Bending Strength

After 28 days 7.0 N/mm<sup>2</sup>

#### Overcoat time for industrial coatings

#### Thickness of ARDEX K301 Time

Up to 5mm 2 days  
Up to 10mm 5 days  
Up to 20mm 7 days

**NOTE:** The information supplied in our literature or given by our employees is based upon extensive experience and, together with that supplied by our agents or distributors, 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.

Country specific recommendations, depending on local standards, codes of practice, building regulations or industry guidelines, may affect specific installation recommendations.

**TECHNICAL ADVICE HELPLINE:**  
**01440 714939**  
**ARDEX online: [www.ardex.co.uk](http://www.ardex.co.uk)**