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# ARDEX K 10

## Synthetic Resin Improved Levelling, Smoothing and Repairing Compound

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Ideal for ramping

Featheredge to 35mm

Resistant to castor wheels

Suitable for heavy traffic

Can be used as a temporary  
wear surface in high stress areas

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### DESCRIPTION

ARDEX K 10 is a synthetic resin cement based smoothing and repair compound. When cured, ARDEX K 10 attains high hardness and is therefore particularly suited to heavy duty applications, temporary wear surfaces and as an underlayment for wear resistant coatings. ARDEX K 10 can be applied from feather edge up to 35mm in a single application.

### SUBSTRATES

ARDEX K 10 is designed for levelling and smoothing on internal dry concrete slabs.

### SURFACE PREPARATION

Concrete floors must be solid, clean and free of wax, grease, asphalt, latex compounds, curing and sealing compounds and any other surface contaminants. Mechanically prepare the floor using recommended preparation methods such as shotblasting, scarifying, diamond grinding, shaving or other suitable methods to provide a roughened, clean, sound, solid and open porous surface.

Acid etching is not an acceptable method of cleaning the subfloor. Do not use solvents or sweeping compounds.

Subfloors must be dry (AS 1884) and properly primed for successful installation. Subfloor temperatures must be a minimum of 10°C.

For further information, contact ARDEX Technical Services.

**For power-trowelled (burnished) concrete and hi-strength concrete greater than 35 MPa, contact ARDEX Technical Services.**

Non-porous floors, such as terrazzo, ceramic and quarry tiles, and epoxy coatings must be solid, well bonded and properly cleaned and primed with ARDEX P 82 Ultra Prime. Steel decking should be rigid and treated with an anticorrosive two part epoxy zinc phosphate primer before priming with ARDEX P 82 Ultra Prime.

Note: This product is intended for interior use over dry substrates only. Do not use in areas of constant water exposure nor in areas exposed to permanent or intermittent substrate moisture, as this may jeopardise the performance of the underlayment and the floor covering. This product is not a vapour barrier and will allow free passage of moisture. Follow the directive of the floor-covering manufacturer regarding the maximum allowable substrate moisture content and test the substrate prior to installing ARDEX K 10.

Test Area: Always install an adequate number of properly located test areas, to include the finish flooring, to determine the suitability of the product for its intended use. As floor coverings vary, always contact and rely upon the floor-covering manufacturer for specific directives, such as maximum allowable moisture content, adhesives selection and intended end use of the product.

### PRIMING

Use ARDEX P 51 over standard concrete floors prior to the installation of ARDEX levelling compounds. Mix 1 part ARDEX P 51 with 2 parts water and apply evenly using a push broom. Do not use paint rollers, mops, or spray equipment. Do not leave any bare spots. Brush off all puddles of excess primer. Allow to dry to a thin, clear film (min. 3 hours, max. 24 hours). Very absorbent concrete may require two applications of primer to avoid pinholes and bubbling in the levelling compound. In such cases, make the initial coat 1 part ARDEX P 51 diluted with 3 parts water. Allow to dry and install a second coat of 1 part ARDEX P 51 diluted with 1 part water. Allow to dry to a thin, clear film (min. 3 hours, max. 24 hours).

In the case of highly power trowelled or extremely dense non-porous concrete, use ARDEX P 82. Mix part A (red) with part B (white) and apply with a short-nap or sponge paint roller, leaving a thin transparent pink coat of primer no heavier than a coat of paint. Do not leave any bare spots. Roll off any areas of excess primer. Allow to dry to a thin, slightly tacky film (min. 3 hours, max. 24 hours). ARDEX P 82 must be applied in a thin layer within 1 hour of mixing. Refer to the Mixing Ratio section for adjustment of mix design when using ARDEX P 82 under ARDEX K 10.

In the case of moisture affected concrete, prime with ARDEX WPM 300 and broadcast sand. Apply one coat of WPM 300 by roller at 3m<sup>2</sup>/litre. Apply a second coat at the same rate and whilst WPM 300 is still wet, broadcast 0.5mm clean dry sand over the surface at ~700gms/m<sup>2</sup>. Cure overnight and broom and vacuum excess sand off. Apply smoothing cement.

Note: Low subfloor temperatures and/or high ambient humidity require longer drying time for ARDEX primers. Do not install levelling compounds until primers have dried thoroughly.

### MIXING RATIO

Mix 1 x 20kg bag of ARDEX K 10 with 4.5 litres of water. Put the full measure of water in the drum first, and then add half the 20kg bag in while mixing thoroughly with the ARDEX mixing paddle and electric drill (heavy duty – 650 rpm). Then slowly add the remainder of the materials while still mixing with the drill and paddle. DO NOT OVERWATER: a yellowish skim while mixing indicates overwatering. Total mixing time is approximately 2-3 minutes to obtain a lump free mixture.

## MANUAL INSTALLATION

Pour the mixed ARDEX K 10 onto the prepared sub-floor; grind in with a steel trowel and spread the ARDEX K 10 mortar evenly over the surface to the required thickness. For thicknesses over 10mm, it is preferable as well as economical to incorporate in the mortar an equal volume of 2-5mm dry aggregate. The addition of aggregate will diminish the workability of the product and may make it necessary to install a finish layer. Allow the first layer to dry for 12-16 hours at 20°C. Prime the surface with ARDEX P 51 mixed 1:2 with water, following priming instructions. Allow the primer to dry thoroughly (min 3 hours, max. 24 hours) and install the finish layer. Apply only at sub-floor temperatures above 10°C.

To extend the pot life in summer, store ARDEX K 10 in a shady and cool place. For mixing use cool water only. If necessary cool the water with a block of ice (not party ice). On days with high temperatures the mortar will set and harden fast.

## HARDENING-DRYING

ARDEX K 10 sets by hydration within 1½ hours at 20°C, and can be walked on after this time. Thin layers are usually ready to receive floorcoverings in 24 hours.

## HIGH STRESS AREAS

Use ARDEX K 10 mixed with ARDEX E 25 as follows:

1.5 litres of ARDEX E 25 plus  
3.5 litres of water per  
20kg ARDEX K 10

For use where the ARDEX K 10 is to be left as a wear surface for short periods, when laying over underfloor heating, heavy traffic or high point loading such as pallet jacks and castor wheels or as an underlayment for parquet or rubber flooring.

## THICKNESS OF INSTALLATION

On dense sub-floors such as ceramic, terrazzo, smooth dense concrete etc., ARDEX K 10 minimum mortar layer of 1.5mm thickness is required.

## COVERAGE

Approximately 1.5kg powder/mm/m<sup>2</sup>

A 20kg bag will cover approximately 4m<sup>2</sup> at 3mm thickness.

## STORAGE

ARDEX K 12 has a shelf life of approximately 12 months if stored in dry conditions in the original unopened packaging.

## TECHNICAL DATA

Bulk density of powder 1.4kg/L  
Weight of fresh mortar 1.8kg/L

### Compressive Strength (DIN 1164)

After 1 day 18 MPa  
After 3 days 22 MPa  
After 28 days 35 MPa

### Tensile Bending Strength (DIN 1164)

After 1 day 5 MPa  
After 3 days 6 MPa  
After 28 days 10 MPa

### Ball Pressure Hardness (Brinell)

After 1 day 50 MPa  
After 3 days 65 MPa  
After 7 days 70 MPa  
After 28 days 80 MPa

Note: The information contained herein is to the best of our knowledge true and accurate. No warranty is implied or given as to its completeness or accuracy in describing the performance or suitability for the product application. Users are asked to check that the literature in their possession is the latest issue.

## HEALTH AND SAFETY

ARDEX K 12 contains Portland cement and Quartz sand. Avoid generation of dust. Do not inhale dust. Avoid contact with eyes or skin. Wear suitable protective gloves and safety glasses. In case of contact with eyes, rinse opened eye for several minutes under running water. In case of contact with skin, rinse affected areas thoroughly with running water.

If dust is inhaled, remove to fresh air, ensure breathing passages are clear and rinse mouth with running water.

If symptoms persist, seek medical advice.

## GUARANTEE

ARDEX products are generally warranted for 10 years when installed to relevant Australian Standards and applicable ARDEX specification, technical data sheet and instruction for application and use. While we assure customers the high standard and quality of our products and services, we accept no liability for any loss or damage which arises from particular site conditions, poor handling and storage or installation by unqualified and unskilled applicators.

## DISCLAIMER

The technical details, recommendations and other information contained in this data sheet are given in good faith and represent the best of our knowledge and experience at the time of printing. It is your responsibility to ensure that our products are used and handled correctly and in accordance with any applicable Australian Standard, our instructions and recommendations and only for the uses they are intended. We also reserve the right to update information without prior notice to you to reflect our ongoing research and development program.

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

The supply of our products and services is also subject to certain terms, warranties and exclusions, which may have already been disclosed to you in prior dealings or are otherwise available to you on request. You should make yourself familiar with them.

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