ARDEX K 80
Rapid Drying Industrial Levelling Compound

- Ideal for creating wear surfaces for heavy duty applications
- Easy to install – 5mm to 50mm thickness in one application
- Quick drying – Walkable in 2 hours
- Suitable for Residential, Commercial and Industrial applications
- Can receive a range of surface finishes including suitable resin coatings, tiles and natural stone

DESCRIPTION
ARDEX K 80 is a rapid hardening, rapid drying, self levelling compound designed to resurface indoor concrete floors. ARDEX K 80 produces a wear surface suitable for commercial and industrial areas including warehouse floors, parking garages and utility areas. ARDEX K 80 can be walked on after approximately 2 hours and coated after 24 hours and subjected to heavy traffic after 48 hours.

SUBSTRATES
ARDEX K 80 is designed for installation over dry, internal, concrete subfloors.

SUBSTRATE PREPARATION
Concrete floors must be clean dry and free of dust, wax, grease, asphalt, latex compounds, curing and sealing compounds and any other surface contaminant that can affect adhesion. Mechanically clean 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 and properly primed for successful installation. Subfloor temperatures must be a minimum of 10°C. For further information, contact ARDEX technical services.

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 bristle 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

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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 powered trowelled or extremely dense nonporous concrete, do not use ARDEX P 82. These surfaces must be mechanically prepared to achieve a rough, porous surface and primed with ARDEX P 51. 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
To 5,25 litres of water, add the ARDEX K 80 (25 kg) whilst mixing thoroughly. Do not overwater. ARDEX floor levelling products react and harden quickly when mixed with water. Thorough mixing in the shortest possible time is essential to ensure a lump free mortar. Always mix the powder into the water. The most efficient method of mixing is by using an heavy duty electric drill (650 rpm). Normal mixing time of a 25 kg bag is approx. 2 minutes. Concrete mixers and hand mixing are not suitable methods of mixing.

MANUAL INSTALLATION
Pour the mixed ARDEX K 80 onto the prepared subfloor and spread in place using the ARDEX stand-up spreader or ARDEX hand trowel. The mixed mortar will flow and trowel marks will self smooth at a thickness greater than 5 mm. Use the ARDEX gauging tool with height adjustment to obtain an even thickness. Use the ARDEX smoother for smoothing and touch-up. Do not rework the ARDEX K 80 after 30 minutes working time. Wear football boots with rubber or nylon studs to avoid leaving marks in the liquid ARDEX K 80.

PUMPING INSTALLATION
For ease and efficiency of application, ARDEX K 80 can be pumped with a Levelcraft Automatic Mixing Pump. Contact ARDEX technical services for detailed information on pumping.

THICKNESS
ARDEX K 80 can be applied from 5mm to 50mm in one application. However, for areas requiring a thickness over 10mm, ARDEX K 80 can be mixed with clean 0-8mm aggregate. Mix ARDEX K 80 with water first then add 1/3 to 1 part by volume of aggregate. If aggregate is wet, reduce the amount of mixing water to avoid over-watering. When using aggregate, a neat final coat of ARDEX K 80 may be required to achieve a smooth surface. Contact ARDEX technical services for further information.

COATINGS
The hardened ARDEX K 80 should be protected from wear, oil, salt, chemicals, abrasives and water, by applying a suitable wear protection system. Contact ARDEX technical services for further information.

HEALTH & SAFETY
ARDEX K 80 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 effected 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.

TECHNICAL DATA ACCORDING TO ARDEX QUALITY STANDARDS

<table>
<thead>
<tr>
<th>Mixing ratio:</th>
<th>5,25 l water for 25 kg powder</th>
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<tbody>
<tr>
<td>Bulk density:</td>
<td>Approx. 1,3 kg/l</td>
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<tr>
<td>Weight of fresh mortar:</td>
<td>Approx. 2,0 kg/l</td>
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<tr>
<td>Consumption:</td>
<td>Approx. 1,65 kg powder/m²-mm</td>
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<tr>
<td>Working time: *</td>
<td>Approx. 30 minutes</td>
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<tr>
<td>Walkability *</td>
<td>Approx. after 2 hours</td>
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<tr>
<td>Application of coverings: *</td>
<td>Approx. 24 hours for diffusion allowing coverings, and as defined below for others;</td>
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<tr>
<td>Thickness</td>
<td>Time required</td>
</tr>
<tr>
<td>Up to 10 mm</td>
<td>1 day</td>
</tr>
<tr>
<td>Up to 30 mm</td>
<td>3 days</td>
</tr>
<tr>
<td>Up to 50 mm</td>
<td>7 days</td>
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*All data is approximately based on laboratory test made at a temperature of +20°C and relative humidity of %65. Environmental conditions may change these values. Higher temperatures and lower relative humidity decrease these duration whereas lower temperature and higher relative humidity increases them.

Compressive Strength: After 1 day approx. 14 N/mm² After 7 days approx. 20 N/mm² After 28 days approx. 30 N/mm²
Flexural Strength: After 1 day approx. 3,8 N/mm² After 7 days approx. 5,8 N/mm² After 28 days approx. 10 N/mm²
Brinell Hardness: After 1 day approx. 60 N/mm² After 7 days approx. 65 N/mm² After 28 days approx. 90 N/mm²

Suitable for rolling chairs: Yes
Suitable for underfloor heating: Yes
EMICODE: - Very low emission
GHS/CLP classification: GHS 07, Warning
GGVSEV/ADR classification: None
Packaging: 25 kg paper bag
Storage and Shelf Life: Can be stored up to 12 months in its original unopened package, in a cool dry area. Do not expose bags to direct sunlight.

RECOMMENDED MIXING PADDLE

The information provided in this document is based on current scientific and practical data and may vary depending on site conditions and use of product. ARDEX is only obliged to ensure the quality of the product at the foreseen standard conditions. ARDEX does not authorize anyone, including ARDEX Representatives, to make any statements which supersede, modify or supplement the information provided on its printed literature or package labels without written confirmation from the Ardex Technical Service Department. This document is valid until future revisions.