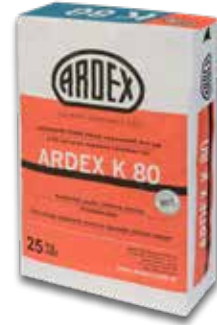




# ARDEX K 80

## 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 K80 is a rapid hardening, rapid drying, self levelling compound designed to resurface indoor concrete floors. ARDEX K80 produces a wear surface suitable for commercial and industrial areas including warehouse floors, parking garages and utility areas. ARDEX K80 can be walked on after approximately 2 hours and coated after 24 hours and subjected to heavy traffic after 48 hours.

### SUBSTRATES

ARDEX K80 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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53195  
EN 13813:2002

### ARDEX K 80

Self Levelling Compound  
EN 13813:CT-C25-F5

Compressive strength:	≥ 30 N/mm <sup>2</sup>
Flexural strength:	≥ 10 N/mm <sup>2</sup>
Abbrasion resistance according to BCA	≤ 50µ
Bond strength:	NPD
pH value:	NPD
Reaction to fire:	A2 <sub>s</sub> 1



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ARDEX Turkey is a subsidiary of the International ARDEX Group.

# ARDEX K 80

## Rapid Drying Industrial Levelling Compound

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 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 K80 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 K80 after 30 minutes working time. Wear football boots with rubber or nylon studs to avoid leaving marks in the liquid ARDEX K80.

### PUMPING INSTALLATION

For ease and efficiency of application, ARDEX K80 can be pumped with a Levelcraft Automatic Mixing Pump. Contact ARDEX technical services for detailed information on pumping

### THICKNESS

ARDEX K80 can be applied from 5mm to 50mm in one application. However, for areas requiring a thickness over 10mm, ARDEX K80 can be mixed with clean 0-8mm aggregate. Mix ARDEX K80 with water first then add 1/3 to 1part 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 K80 may be required to achieve a smooth surface. Contact ARDEX technical services for further information.

### COATINGS

The hardened ARDEX K80 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 K80 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

Mixing ratio:	5,25 l water for 25 kg powder								
Bulk density:	Approx. 1,3 kg/l								
Weight of fresh mortar:	Approx. 2,0 kg/l								
Consumption:	Approx. 1,65 kg powder/m <sup>2</sup> -mm								
Working time:*	Approx. 30 minutes								
Walkability*	Approx. after 2 hours								
Application of coverings:*(approx. values)	Approx. 24 hours for diffusion allowing coverings, and as defined below for others;								
	<table><thead><tr><th>Thickness</th><th>Time required</th></tr></thead><tbody><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></tr></tbody></table>	Thickness	Time required	Up to 10 mm	1 day	Up to 30 mm	3 days	Up to 50 mm	7 days
Thickness	Time required								
Up to 10 mm	1 day								
Up to 30 mm	3 days								
Up to 50 mm	7 days								

\*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/mm <sup>2</sup> After 7 days approx. 20 N/mm <sup>2</sup> After 28 days approx. 30 N/mm <sup>2</sup>
Flexural Strength:	After 1 day approx. 3,8 N/mm <sup>2</sup> After 7 days approx. 5,8 N/mm <sup>2</sup> After 28 days approx. 10 N/mm <sup>2</sup>
Brinell Hardness:	After 1 day approx. 60 N/mm <sup>2</sup> After 7 days approx. 65 N/mm <sup>2</sup> After 28 days approx. 90 N/mm <sup>2</sup>
Suitable for rolling chairs:	Yes
Suitable for underfloor heating:	Yes
EMICODE:	EC 1 - 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

