



ARDEX K 80

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

Ardex Australia Pty Ltd
7/20 Powers Road
Seven Hills NSW 2147
Tel: (02) 9851 9199
Fax: (02) 674 5621
E: techinfo@ardexaustralia.com
W: www.ardex.com

Ardex New Zealand Ltd
32 Lane Street, Woolsten
Christchurch, New Zealand
Tel: (03) 384 3029
Fax: (03) 384 9779
E: techinfo@ardexaustralia.com
W: www.ardex.com

ARDEX K 80

Industrial Levelling Compound

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.

SURFACE 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 (AS 1884-1985) 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 51 over standard concrete floors prior to the installation of ARDEX levelling compounds. Mix 1 part ARDEX 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 applications of primer to avoid pinholes and bubbling in the levelling compound. In such cases, make the initial coat 1 part ARDEX 51 diluted with 3 parts water. Allow to dry and install a second coat of 1 part ARDEX 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, do not use ARDEX 82. These surfaces must be mechanically prepared to achieve a rough, porous surface and primed with ARDEX 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 RATIO

4 litres of water to 20 kg of K80 powder.

MIXING

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 ARDEX mixing paddle and a heavy duty electric drill (650 rpm). Normal mixing time of a 20 kg bag is 1 to 2 minutes. Concrete mixers and hand mixing are not suitable methods of mixing. To 4 litres of water, add the ARDEX K80 (20 kg) whilst mixing thoroughly. Do not overwater.

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 10 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 2-7mm aggregate. Mix ARDEX K80 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 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. ARDEX WM163 Polyurethane sealer can be used for light to medium foot traffic areas. Other systems including epoxy coatings or flooring paints can also be used for heavy traffic areas. Contact ARDEX technical services for further information.

COVERAGE

Approximately 1.65kg powder/mm/m². A 20kg bag will cover approximately 2.4m² at 5mm thickness.

TECHNICAL DATA

Bulk density of powder- 1.3 kg/L
Weight of fresh mortar - 2.0 kg/L

Compressive Strength

After 1 days - 14 MPa
After 7 days - 20 MPa
After 28 days - 32 MPa

Tensile Bending Strength

After 1 days - 3.8 MPa
After 7 days - 5.8 MPa
After 28 days - 9.0 MPa

Ball Pressure Hardness:

After 1 days - 60 MPa
After 7 days - 65 MPa
After 28 days - 90 MPa

STORAGE

ARDEX K80 has a shelf life of 12 months if stored in dry conditions in unopened packaging.

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.

TOLL FREE TECHNICAL SERVICES:

1800 224 070 (Aust)

0800 224 070 (NZ)

NSW

Phone: (02) 9851 9100

Fax: (02) 9674 5621

QLD

Phone: (07) 3881 3888

Fax: (07) 3881 3188

VIC

Phone: (03) 9308 9255

Fax: (03) 9308 9332

SA

Phone: (08) 8268 2511

Fax: (08) 8345 3207

WA

Phone: (08) 9455 1644

Fax: (08) 9455 1227

New Zealand (Christchurch)

Phone: (03) 384 3029

Fax: (03) 384 9779

NOTE

ARDEX products are generally warranted for 10 years when installed to the 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.