



ARDEX A 55

Rapid Drying Levelling & Smoothing
Compound

Ultra Rapid Drying - Install most floorcoverings after 1 - 2 hours

Easy to install - 1mm to any thickness in one application

Self Smoothing

Suitable for Residential and Commercial applications

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ARDEX A 55

Rapid Drying Levelling & Smoothing Compound

DESCRIPTION

ARDEX A 55 is a rapid drying levelling and smoothing compound designed to level and smooth internal sub-floors prior to applying floor finishes. It is perfect for rapid renovation and repair work as most floorcoverings can be installed after 1 hour.

SUBSTRATES

ARDEX A 55 can be installed in levelling systems over a number of substrates including concrete, ceramic*, terrazzo*, power-trowelled (burnished) concrete* and high-strength concrete* greater than 35 MPa.

*(Contact ARDEX technical services for information on these procedures).

SURFACE PREPARATION

Concrete floors must be solid, clean and free of wax, grease, asphalt, latex compounds, curing and sealing compounds and any other surface contaminant. 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).

Use ARDEX 82 ULTRA PRIME for non-absorbent subfloors such as ceramic and quarry tile and terrazzo. 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 82 must be applied in a thin layer within 1 hour of mixing. A thick coat will produce a soft and rubbery surface,

which may result in cracking of the levelling compound.

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

6.5 litres of water to 25kg of A 55 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 25 kg bag is 2 to 3 minutes. Concrete mixers and hand mixing are not suitable methods of mixing.

To 6.5 litres of water, add the ARDEX A 55 (25 kg) whilst mixing thoroughly. Do not overwater.

INSTALLATION

Pour the mixed ARDEX A 55 onto the prepared subfloor and spread in place using the ARDEX stand-up spreader or ARDEX hand trowel. Use the ARDEX gauging tool with height adjustment to obtain an even thickness. Use the ARDEX smoother for smoothing, featheredging and touch up. Do not rework the ARDEX A 55 after 10 minutes working time. Wear football boots with rubber or nylon studs to avoid leaving marks in the liquid ARDEX A 55.

THICKNESS

ARDEX A 55 can be applied from 1mm to any thickness in one application. For areas requiring a thickness over 10mm, ARDEX A55 should be mixed with a well washed and dried 2.8mm – 7mm aggregate in equal volume. Mix ARDEX A 55 with water first then add the aggregate in equal volume to mixed mortar whilst mixing.

DRYING TIME

Most floorcoverings can be installed after 1 hour under normal drying conditions at 20°C. Higher temperatures will reduce the drying time, whilst lower temperatures will extend drying time.

HIGH STRESS AREAS

For heated subfloors, or areas subject to high loads, please refer to ARDEX technical services for information on using ARDEX E25.

COVERAGE

Approximately 1.5 kg powder/mm/m². A 25kg bag will cover approximately 17m² at 1mm thickness.

TECHNICAL DATA

Bulk density of powder - 1.2 kg/L
Weight of fresh mortar - 1.9 kg/L

Compressive Strength

After 1 days - 20 MPa
After 7 days - 30 MPa
After 28 days - 35 MPa

Tensile Bending Strength

After 1 days - 6 MPa
After 7 days - 8 MPa
After 28 days - 10 MPa

Ball Pressure Hardness:

After 1 days - 40 MPa
After 7 days - 50 MPa
After 28 days - 60 MPa

STORAGE

ARDEX A 55 has a shelf life of 6 months if stored in dry conditions in unopened packaging.

HEALTH & SAFETY

ARDEX A 55 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. Material Safety Data Sheets are available on request.

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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.