



ARDEX K 55 **ULTRA RAPID**

Ultra Rapid Drying Self-Levelling Compound

- Ultra rapid drying – ready to receive vinyl after 60 minutes
- Easy to install – 1mm to 10 mm thickness in one application
- Suitable for residential and commercial applications
- Excellent for areas subjected to high stress environments



DESCRIPTION

ARDEX K 55 is an ultra rapid drying levelling and smoothing compound designed to level and smooth internal sub-floors prior to applying floor finishes. It is perfect for projects where a quick turn around time is needed as most floor coverings can be installed after 1 hour.

SUBSTRATES

New and existing concrete, Substrates with special requirements (Contact ARDEX Technical Services)- Moisture vulnerable concrete, terrazzo, ceramic tiles, concrete subfloors with electric heating, existing epoxy coatings, high strength concrete greater than 35N/mm².

SUBSTRATE 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 shot blasting, 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

ARDEX P 51 can be used over standard concrete floors prior to the installation of ARDEX K 55. 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 applications of prim-



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53118

EN 13813:2002

**53118 ARDEX K 55,
EN 13813:CT-C35-F10; Polymer-modified**

Cementitious screed for internal use

EN 13813:CT-C35-F10

Reaction to fire:	A2 _s -1
Release of corrosive substances:	CT
Water permeability:	NPD
Water vapour permeability:	NPD
Compressive strength:	C35
Flexural strength:	F10
Wear resistance according to BCA:	NPD
Sound insulation:	NPD
Sound absorption:	NPD
Thermal resistance:	NPD
Chemical resistance:	NPD



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er 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).

Use ARDEX P 82 Eppxy Primer 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 P 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

5.25 litres of water to 20kg of ARDEX K 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 (650rpm). Normal mixing time of a 20kg bag is 2 to 3 minutes. Concrete mixers and hand mixing are not suitable methods of mixing. To 5.25 litres of water, add the ARDEX K 55 20kg whilst mixing thoroughly. Do not overwater. The mixed mortar has a working time of 10-15 minutes at 23°C. This time will be extended in cooler temperatures, and reduced at higher temperatures.

INSTALLATION

Pour the mixed ARDEX K 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 K 55 after 5-7 minutes. Wear football boots with rubber or nylon studs to avoid leaving marks in the liquid ARDEX K 55. ARDEX K 55 is pumpable. Subsequent levelling work should be done immediately after the area is trafficable. Even thick layers are ready to receive floor coverings after 60 minutes. Do not use in permanent wet areas or externally.

THICKNESS

ARDEX K 55 can be applied from 1,5mm up to 10 mm thickness in one application. For areas requiring a thickness 10 - 20mm, ARDEX K 55 should be mixed with a well washed and dried aggregate as defined below;

1 volume ARDEX K 55 0,3 volume 0-4 mm aggregate

1 volume ARDEX K 55 0,5 volume 0-8 mm aggregate

Mix ARDEX K 55 with water first then add the aggregate in equal volume to mixed mortar whilst mixing.

DRYING -HARDENING

Drying time is dependent on jobsite temperature, humidity, installation thickness and floor covering type. (Based on 23°C and 50% RH.) Walkable from 45-60 minutes. Ready for floor coverings from 1-2 hours.

HEALTH AND SAFETY

ARDEX K 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 area 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. Safety Data Sheets are available on request

TECHNICAL DATA ACCORDING TO ARDEX QUALITY STANDARDS

Mixing ratio: approx. 5.25 L water:
20kg powder

Bulk density: approx. 1.2kg/L

Fresh weight of mortar: approx. 1.8kg/L

Consumption: approx. 1.4kg of powder
per m² @ 1mm

Working Time *: approx. 15 minutes

Walkability *: approx. 60 minutes

Ready to receive floor coverings *: approx. 60 minutes

*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. 20 N/mm²
after 7 days approx. 30 N/mm²
after 28 days approx. 35 N/mm²

Tensile bending strength: after 1 day approx. 6 N/mm²
after 7 days approx. 8 N/mm²
after 28 days approx. 10 N/mm²

Brinell hardness: after 1 day approx. 40 N/mm²
after 7 days approx. 50 N/mm²
after 28 days approx. 60 N/mm²

Resistant to chair castors: Yes

Suited for floorheating: Yes

EMICODE: EC 1R- Very low emission

GHS/CLP classification: None

GGVSEV/ADR classification: None

Packaging: Special bags with 20kg net

Storage and shelf life: Can be stored for approx. 12 months in dry rooms in originally sealed packaging.