



ARDEX K 110

Self Levelling Compound

- Levelling and smoothing of floor areas
- Suitable for floors with underfloor heating
- For thicknesses up to 10 mm in a single application
- Ready to receive floor finishes starting from 3 days
- Cement Based
- Easily grindable
- Self-smoothing
- Low Emission
- Pumpable
- Low shrinkage



* Provides easy, safe and long-lasting application when used in conjunction with ARDEX Floor Covering Adhesives.

SCOPE OF USE

Internal, cementitious sub-floors; Filling, smoothing and levelling of concrete slabs and cementitious screeds prior to application of floor coverings such as PVC, LVT, linoleum, tiles and rubber based floor coverings.

SUBSTRATE PREPARATION

Principally, the substrate must be mature, sound, solid, clean and dry with good surface integrity – in other words, sufficiently cured, firm, load bearing and free from all contaminants such as dust, laitance, oil & grease, adhesive & coating residues, release agents, curing compounds, etc. Concrete floors must be at least 4 weeks old.

Mechanically prepare the substrate surface 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. Repair minor defects such as superficial cracking and holes using an appropriate ARDEX product, ie: A 45 or solvent-free liquid epoxy. All joints and cracks subject to movement must be brought through to the final floor finish and suitably detailed for the particular application.

Substrates where the measured moisture level is above 2%, ARDEX PU 30 Primer should be used as a moisture barrier up to 6% moisture. The moisture barrier application requires two coats of ARDEX PU 30. Alternatively sanding the first coat, or applying a second coat of ARDEX P4 is also possible. Please see technical datasheet of ARDEX PU 30 for more information.

After suitable preparation, the substrate must be thoroughly vacuumed and properly primed for a successful installation.



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40066
EN 13813:2002

ARDEX K 110

Self Levelling Compound
EN 13813:CT-C20-F5

Compressive strength:	≥ 20 N/mm ²
Flexural strength:	≥ 5 N/mm ²
Abbrasion resistance according to Böhme	NPD
Bond strength:	NPD
pH value:	NPD
Reaction to fire:	E

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PRIMING

If ARDEX PU 30 is used as a moisture barrier already no additional priming is necessary. Otherwise the substrate must be primed according to the below table;

Cementitious Screeds	ARDEX P 51, dilution ratio 1:5
Beton zeminler	ARDEX P 51, dilution ratio 1:3
Calcium Sulphate Screeds	ARDEX P 51, dilution ratio 1:3
Moist cementitious screeds/ Moist concrete floors	ARDEX EP 2000, up to 4% moisture, ARDEX PU 30, between 4% - 6% moisture
Non-absorbent surfaces	ARDEX P 82 or ARDEX EP 2000

Pay attention to the details in the product technical datasheets and / or consult the ARDEX technical department for detailed information.

MIXING

To 5,25 - 5,50 litres of water, add the ARDEX K 110 (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. 2-3 minutes. Concrete mixers and hand mixing are not suitable methods of mixing.

INSTALLATION

ARDEX K110 can be applied in temperature ranges (substrate & atmospheric) from 10° - 35°C.

ARDEX K110 has a flow time of approx. 10 - 15 minutes at 20°C. At lower temperatures this time is extended and at higher temperatures this time is shortened.

Work to an area that suits the size of the installation team such that fresh mortar is poured into workable mortar, which can then be spread, gauged and trowelled within the flow time of the material.

Pour the mixed ARDEX K110 material onto the prepared & primed substrate and then spread into place using appropriate tools. Rake the material to gauge the thickness if required and then smooth the surface with a flat trowel if required.

The use of a spiked roller may aid the final levelling of the material, but is not normally necessary. If used, the spiked roller should be used within the flow time of the product and limited to a maximum of 2 passes.

Studded shoes should be worn when walking in the fresh mortar to avoid leaving marks.

For ease & efficiency in applying material in large areas, ARDEX K 110 can be pumped with continuously working auger or piston style pumps with a capacity of 20 – 40L of mortar per minute. If the pumps are not in operation for 15 minutes they should be cleaned. Protect the surface of the setting material from wind, sunlight and contamination for 24 hours. The application of a small test area prior to complete installation is recommended in unusual circumstances.

TECHNICAL DATA ACCORDING TO ARDEX QUALITY STANDARDS

Mixing ratio:	5,25-5,50 l water for 25 kg powder
Bulk density:	Approx. 1,4 kg/l
Weight of fresh mortar:	Approx. 2,1 kg/l
Consumption:	Approx. 1,8 kg powder/m ² -mm
Working time:*	Approx. 20 - 30 minutes
Walkability*	Approx. 5-6 hours
Application of coverings:*	After a day up to 3 mm thickness, (approx. values) and an additional day for every additional mm

*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. 6 N/mm ² After 28 days approx. 20 N/mm ²
Flexural Strength:	After 1 day approx. 1,5 N/mm ² After 28 days approx. 5,0 N/mm ²
Suitable for rolling chairs:	Yes
Suitable for underfloor heating:	Yes
GHS/CLP classification:	GHS 05, Corrosive Signal Word: Danger
GGVSEV/ADR classification:	None
Packaging:	25 kgpaper 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

