



# ARDEX K 22 F

## Calcium sulphate levelling compound, fibre-reinforced

- ARDEX MICROTEC technology
- Based on alpha-half hydrate with synthetic resin enhancers and high-performance fibres
- For layer thicknesses up to 50 mm
- Can be walked on after approx. 90 minutes
- Rapid and high strength development
- Very low tension
- Optimal flow characteristics
- Suitable for underfloor heating
- Pumpable



ARDEX system product: Particularly secure bonding properties with ARDEX floor adhesives.



### Area of application

For indoor use, floors.

Filling, levelling and smoothing dry screeds, Wood chipboard, wooden floorboards, substrates with old, waterproof adhesive and levelling compound residues as well as calcium sulphate, cement, mastic asphalt and magnesite screeds, tile and slab coverings and other substrates, for receiving textile coverings, rubber coverings, Linoleum, LVT flooring and parquet flooring.

### Art

White powder based on alpha-half hydrate with easily dispersible plastics, high-performance fibres and special additives.

When mixed with water, it forms a smooth, very well-flowing, self-levelling, pumpable mortar that can be processed for approx. 30 minutes and is walkable after approx. 90 minutes. The mortar hardens on drying to form a very low-tension mass, preventing crack formation even in thick layers.

### Preparation of the surface

The substrate must meet the requirements of ÖNORM B 5236 Planning and execution of floor covering and wood flooring work. In particular, it must be level, permanently dry, solid, load-bearing, free of separating agents and cracks, and resistant to tension and pressure, or it must be prepared accordingly.

Cracks and joints must be filled properly and professionally, e.g. with ARDEX P 10 SR 2-K rapid repair resin or ARDEX FB casting resin.

Absorbent substrates, such as cement screeds, calcium sulphate screeds (prepared in accordance with the planning and execution guidelines for flowing screeds), dry screeds, etc., must be primed with ARDEX P 52 Concentrated Primer, diluted 1 : 3 with water.

Mastic asphalt screeds must comply with ÖNORM B 3732. Well sanded mastic asphalt screeds do not require priming, insufficiently sanded and old mastic asphalt screeds must be primed with ARDEX P 4 READY Multifunctional Primer.

On tile and slab coverings, chipboard, magnesite screeds, old substrates with firmly adhering, waterproof adhesive and levelling compound residues, use ARDEX P 52, diluted 1 : 0.5 with water, or ARDEX P 4 READY as a bonding agent.

Sand down lacquered wooden floorboards and prime with ARDEX P 4 READY.

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Manufacturer with certified  
QM/UM system according to  
EN ISO 9001/14001



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### Processing

Pour clear water into a clean mixing container and stir vigorously, adding enough powder to produce a lump-free mortar.

Approximately 5.25–5.75 litres of water are required to mix 25 kg of ARDEX K 22 F powder.

The mortar can be worked for approx. 30 minutes at +10°C to +20°C, with lower temperatures extending the working time and higher temperatures shortening it.

ARDEX K 22 F is easy to trowel and flows so well that re-trowelling or sanding is usually unnecessary.

Apply at least 2 mm thick on dense and pre-coated substrates.

On mastic asphalt screeds, the layer thickness can be up to 10 mm.

Primer moisture-sensitive substrates with layer thicknesses over 10 mm with ARDEX EP 2000 Multifunctional Epoxy Resin.

For laying parquet flooring – only with ARDEX AF 460 Ready-to-Use Parquet Adhesive or ARDEX AF 480 Rigid Elastic Parquet Adhesive in a tub – the minimum layer thickness is 3 mm.

### Pumps

Screw, piston and continuous mixing pumps with a delivery rate of approx. 20 to 40 litres of mortar per minute are suitable for pumping the levelling compound. Calcium sulphate slurries must not be used as a lubricating fluid. The machine and hoses must be cleaned after periods of inactivity exceeding 30 minutes.

### Layer thicknesses

ARDEX K 22 F can be applied undiluted in layer thicknesses of 1.5 to 30 mm. For layer thicknesses exceeding 30 mm, the mortar must be diluted with sand:

### Mixing ratio

Washed mix:

Sand, grain size 0 - 4 mm, 1 RT mortar : 0.3 RT mixed material

Washed mix:

Sand, grain size 0 - 8 mm, 1 RT mortar : 0.5 RT mixed material

### Ready for publishing

Layer thicknesses up to 3 mm are ready for installation after 24 hours at +20°C and relative humidity <65%. For higher layer thicknesses, it is necessary to check the residual moisture ( $\leq 0.5$  CM-%). As a rule of thumb, it can be assumed that for each additional mm of layer thickness, a drying time of 24 hours must be calculated.

Higher temperatures and lower air humidity accelerate drying, while low temperatures and higher air humidity delay it.

### Please note

Wooden floors must have a wood moisture content appropriate to the room climate and be permanently dry to prevent damage from moisture. Adequate ventilation must be ensured, especially when installing vapour-proof coverings, e.g. by installing ventilation slots. Wooden floorboards must be securely fastened to the joists and fitted with tongue and groove joints. They must not be able to move against each other and may need to be screwed down.

Please seek technical advice before laying tiles and slab coverings.

ARDEX K 22 F cannot be used outdoors or in wet areas.

In case of doubt, carry out a test application.

### In general

The amount of mixing water depends on the layer thickness to be applied. For thin layers up to approx. 10 mm, use 5.75 litres of water; for thicker layers, use less water accordingly.

If applying multiple layers, allow the layer to dry completely and apply an intermediate coat of ARDEX P 52 diluted 1:3 with water.

ARDEX K 22 F calcium sulphate levelling compound, fibre-reinforced, should be applied at temperatures above +5°C.

Protect compound layers from premature drying due to solar radiation and drafts.

### Note

The information in our safety data sheets must be observed.

For commercial use only!

### Zusatzinformation

Handle with care during processing: avoid dust formation and release into the environment.

Dispose of the container and its contents in a sealed state in accordance with applicable local/regional/national/international regulations.

## Technical data according to ARDEX quality standard

	Component A	Component B
Mixing ratio approx.	5.25 - 5.75 l Water 1 Part water	25 kg powder 3.75 RT powder
Material requirements	1.5 kg powder per m <sup>2</sup> and mm	
Bulk density approx.	1,20 kg/l	
Fresh weight approx.	1,90 kg/l	



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### Application properties

Processing time approx. 30 Minute(s)

Can be walked on after approx. 90 Minute(s)

Ready for laying after approx. **Thickness**  
3 mm **Duration**  
1 Day

Application Ambient conditions +20°C

### Mechanical properties

Bending tensile strength approx. **Time** **Bending tensile strength approx.**  
After 1 day 2.5 N/mm<sup>2</sup>  
After 7 days 5 N/mm<sup>2</sup>  
After 14 days 12 N/mm<sup>2</sup>  
After 28 days 14 N/mm<sup>2</sup>

Compressive strength approx. **Time** **Compressive strength of approx.**  
After 1 day 11 N/mm<sup>2</sup>  
After 7 days 23 N/mm<sup>2</sup>  
After 14 days 33 N/mm<sup>2</sup>  
After 28 days 38 N/mm<sup>2</sup>

### Product details

Suitable for underfloor heating Yes

Chair castor suitability Yes, from 1 mm layer thickness

Labelling according to GHS/CLP See relevant safety data sheet

Labelling according to ADR See relevant safety data sheet

EMICODE EC 1 PLUS = very low emissions PLUS

GISCODE CP1 = levelling compound based on calcium sulphate, non-hazardous

Packaging Sacks containing 25 kg net

Storage Can be stored in dry rooms for approx. 12 months in the original sealed container.

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<b>CE</b>	
ARDEX GmbH Friedrich-Ebert-Str. 45 58453 Witten Germany	
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53209	
EN 13813:2002	
<b>ARDEX K 22 F</b> Calcium sulfate screed for internal use EN 13813:CA-C35-F10; Polymer-modified	
Reaction to fire:	E
Release of corrosive substances:	CA
pH-value:	≥ 7
Water vapour permeability:	NPD
Compressive strength:	C35
Flexural strength:	F10
Sound insulation:	NPD
Sound absorption:	NPD
Thermal resistance:	NPD
Chemical resistance:	NPD