



# ARDEX K 22 TF

## High Flow, Fiber Reinforced, Self-Leveling Underlayment

- Suitable for parquets, ceramic, PVC, LVT, Carpets and similiar coatings
- High strength, rapid strength gain
- Application up to 50 mm thickness
- Gets walkable in 90 minutes
- High performance fiber reinforcement
- Low internal stress, low crack tendency
- Suitable for underfloor heating
- Pumpable



### ARDEX System Product

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

### DESCRIPTION

ARDEX K 22 TF High Flow, Fiber Reinforced, Self-Leveling Underlayment is a blend of high-strength gypsum, high performance fibers, special powdered polymers and additives. It is used to repair existing above-grade floors prior to the installation of new floor coverings. It is recommended for above-grade use over structurally sound concrete, gypsum, wood, well-bonded VCT, well-bonded patching, leveling or fill materials and properly prepared, non-water-soluble adhesive residue on concrete.

Easy to apply, ARDEX K 22 TF mixes with water only to a consistency that is pourable or pumpable, seeks its own level and produces a smooth, flat, hard surface. It also hardens quickly, allowing foot traffic in just 1,5 hours and the installation of floor covering as soon as the underlayment has dried sufficiently for the floor covering selected (24 hours for 3 mm applications; 2 - 3 days for thicker applications, depending on temperature, humidity and installation thickness).

ARDEX K 22 TF can be installed from 1,5mm up to 30mm thick neat and up to 50mm with aggregate and can be tapered to match existing elevations.

### 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 atleast 4 weeks old.



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40063  
EN 13813:2002

ARDEX K 22 TF

Self levelling compound  
EN 13813:CA-C30-F10

Compressive strength:	≥ 30 N/mm <sup>2</sup>
Flexural strength:	≥ 10 N/mm <sup>2</sup>
Abbrasion resistance according to BÖHME	NPD
Bond strength:	NPD
pH value:	≥ 7
Fire classification:	E



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## High Flow, Fiber Reinforced, Self-Leveling Underlayment

Absorbent substrates, such as cement screeds, calcium sulfate screeds, dry screeds, etc., must be primed with ARDEX P 51 primer diluted with water by 1:3 ratio.

Mastic asphalt screeds must have hardness classes of IC 10 or IC 15 according to DIN 18560 / EN 13813.

Well-sanded mastic asphalt screeds doesn't require priming. Insufficiently sanded and old cast asphalt screeds must be primed ARDEX P 82 water based epoxy primer.

Existing tiles, chipboards, magnesite screeds, substrates with non water-soluble adhesive residues must be primed with ARDEX P 82 or ARDEX P 51, diluted with water by 1: 0.5 ratio.

Varnished wooden substrates must be primed with ARDEX P 82 primer.

### MIXING

To 5,75 litres of water, add the ARDEX K 22 TF (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 minutes. Concrete mixers and hand mixing are not suitable methods of mixing.

### INSTALLATION

ARDEX K 22 TF has a working time of approx. 30 minutes at 20°C. At lower temperatures this time is extended and at higher temperatures this time is shortened.

Pour the mixed ARDEX K 11 T 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.

ARDEX K 22 F can be pumped using Automatic Mixing Pumps. Spiral feeder and screed machines are suitable for this purpose.

### APPLICATION THICKNESS

Install at a minimum thickness of 1.5 mm over the highest point in the floor, which typically results in an average thickness of 3 mm or more over the entire floor. ARDEX K 22 TF can be installed up to 3 mm thick neat and up to 5 cm with aggregate.

Mixing ratio with aggregates

Grain size	Mortar	Sand
0 – 4 mm	1 volume	0,3 volume
0 – 8 mm	1 volume	0,5 volume

The substrate must be primed with ARDEX PU 30 moisture barrier if the application thickness is more than 10mm and the substrate is sensitive to moisture.

Parquet applications require at least 3mm thickness and a SMP based adhesive like ARDEX AF 460.

### ACCEPTING OF COVERINGS

Applications up to 3mm thickness will be ready for covering in 24 hours at +20 °C temperature and less than 65% relative humidity. For thicker applications, ensure that the moisture is at most 0,5% (CM Method). Generally, for each additional mm over 3mm's, another 24 hours of drying time required. Higher temperatures and lower relative humidity decrease these period.

### NOTE

ARDEX K 22 TF is not suitable for outdoors or permanently wet areas. The amount of mixing water varies according to the application thickness. 5.75 l is added in thin layers up to 10 mm. It is recommended to use less water in thicker applications.

Wooden floors should contain moisture equivalent to the ambient conditions and must be constantly dry in order to eliminate the risks that may arise from moisture. Ventilation is very important especially in laying vapor-tight coatings, therefore required opening air ducts. When applied on wooden floors, ensure that the boards are stable and fixed to each other. This fixation can be done by additional screwing. Please consult for technical information before applying on tiles or similar coatings.

If the application will require laying multiple layers wait until the underlying layer dry thoroughly and prime it with ARDEX P 51 diluted with water by 1:3 ratio prior to second layer application.

ARDEX K 22 TF must be applied temperatures over +5 °C.

The application area must be protected from direct sunlight and strong air flow that will result in exceptional drying times.

In case of doubt, a trial application is recommended first.

### TECHNICAL DATA ACCORDING TO ARDEX QUALITY STANDARDS

Mixing ratio:	5,25 - 5,75 liters of water per 25 kg powder
Bulk density:	approx. 1,2 kg/l
Weight of fresh mortar:	approx. 1,9 kg/l
Consumption:	approx. 1,5 kg powder/m <sup>2</sup> –mm
Working time*:	approx. 30 minutes
Walkability*:	approx. 90 minutes
Accepts coverings in*:	1 day up to 3 mm thickness Afterwards, another day for each 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. 10 N/mm <sup>2</sup> After 7 days approx. 15 N/mm <sup>2</sup> After 28 days approx. 30 N/mm <sup>2</sup>
Flexural strength:	After 1 day approx. 2,0 N/mm <sup>2</sup> After 7 days approx. 3,0 N/mm <sup>2</sup> After 28 days approx. 10 N/mm <sup>2</sup>
Suitable for rolling chairs:	Yes
Suitable for underfloor heating:	Yes
EMICODE:	EC 1 <sup>PLUS</sup> - Very low emissions
GHS/CLP classification:	None
GGVSEV/ADR classification:	None
Packaging:	25 kg paper 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.