



ARDEX GF 3-1 K

Cement based tile grout

- GF 3-1K stone grey is already being delivered in the recycled container.
- 1-component, air-curing, ready-to-use grout with graded mineral grain mixture
- Ready to use
- Water-permeable
- Slurryable with water
- Can be used in light rain
- Self-compacting
- High frost resistance
- Abrasion-resistant
- After processing, protect from moisture for 24 hours



Colours

sand-coloured, stone grey, basalt

Area of application

Outdoors, floors.

For grouting concrete block and natural stone paving, clinker and slab coverings with narrow joints. Suitable for garden paths, terraces and house entrances with pedestrian traffic only.

Can be applied in light rain, but protect from moisture for 24 hours (at +20°C), covering may be necessary!

ARDEX GF 3-1 K Tile grout is not suitable for use in indoor rooms or in swimming pool areas.

Art

Air-curing, ready-to-use grout with a graded mineral grain mixture. A single-component, highly modified, air-curing liquid polymer is used as a binder.

Preparation of the surface

The substrate must be stable, load-bearing and permanently water-permeable. The joint depth must be ≥ 30 mm and the joint width must be between ≥ 3 mm and a max. of 20 mm throughout. The object and outside temperature must be $\geq +5^\circ\text{C}$ and max. $+25^\circ\text{C}$.

For slab coverings laid in a drainable mortar bed with adhesive, the minimum joint depth is ≥ 20 mm for pedestrian traffic only.

ARDEX GF 3-1 K Tile grout cannot compensate for any settlement of the substrate. The substrate, substructure and superstructure must be designed in accordance with the expected traffic load and comply with the currently valid ÖNORM standards or regulations.

Processing

The surface of the covering to be grouted must be cleaned thoroughly and free of any residue. The surface must be thoroughly pre-wetted. Always use clean, cold tap water for pre-wetting and cleaning.

Always test the product on a small area first, as contact between ARDEX GF 3-1 K Tile grout and natural stone or concrete tiles may cause visual changes such as darkening and/or staining.

The ARDEX GF 3-1 K Tile grout should be removed from the container in portions and slurried into the joints with a soft water jet and a hard rubber squeegee. Excess mortar residue must be cleaned from the surface of the covering with a water spray jet without washing out the joints. A light film of binder may remain, depending on the type of stone. The surface of the covering is then swept with a damp coconut broom and the joint surface smoothed. Any existing chamfers on the slab covering must be swept away.

Laying paving or slab coverings in a stable, permanently drainable sand or grit bed is sufficient. Laying paving or slab coverings in a drainable concrete or mortar bed would be better.



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The expansion joints must be arranged in accordance with the building regulations. Existing joints from the substrate and adjacent to buildings must be retained. Grouting is carried out with elastic jointing material.

During processing and curing, avoid contact between animals and ARDEX GF 3-1 K Tile grout.

ARDEX GF 3-1 K Tile grout must not be used in wells or ponds.

Waterlogging during the hardening phase, e.g. due to non-draining sub- or superstructures, can cause permanent damage to the joint.

The grouted surfaces are not resistant to high-pressure cleaning.

Practical experience has shown that there are types of stone, such as some granites, bluestones, clinker bricks, artificial stones and light-coloured concrete blocks, on which the thin film of binder remaining on the surface can cause special effects (colour changes). These phenomena result from contact between ARDEX GF 3-1 K Tile grout and the surface of the covering and are not a sign of poor workmanship.

In addition, particularly careful cleaning must be carried out on critical types of stone. Furthermore, particularly absorbent tiles, such as some granites and sandstones, may darken due to rising moisture from the bedding.

Due to the raw material base, superficial sanding of the joint may occur; this is not a quality defect.

Despite this, more pronounced and longer-lasting colour deepening may occur on the surface of absorbent slab coverings, which may also be irreversible.

If the PE bag is damaged, the material will react prematurely and form lumps. In this case, the product can no longer be processed.

Opened containers must be used up and processed completely within the working time.

All times specified in this Data Sheet refer to +20°C and 65% relative humidity (higher temperatures shorten, lower temperatures extend these times).

Due to different mineral materials, different binders and additives, colour differences between the various ARDEX GF

mortar products are unavoidable. Colour images in the product information are only indicative and only approximate the original colours of ARDEX GF grouts.

Please note

It is important that the surface of the covering is completely cleaned of mortar residues, as any components that are not removed will bond firmly to the surface as the binder hardens. Special chemical cleaning is available for this purpose. In this case, please contact our application technology department.

During the initial period, a very thin film of binder remains on the surface, which emphasises the surface structure of the covering. The binder film disappears within a few months when exposed to the weather. On surfaces not exposed to the weather, the binder film is only removed by mechanical abrasion.

The freshly grouted surface must be cordoned off for at least 24 hours, after which the surfaces can be walked on.

The freshly grouted surface should be protected from moisture for at least 24 hours.

Moisture exposure during the hardening phase can delay or impair the achievement of final strength.

The surfaces can be finally released after 7 days.

In principle, a strength test should be carried out before the surfaces are put into service.

Existing weathered ARDEX GF 3-1 K Tile grout is not resistant to high-pressure cleaning. Chlorine-free cleaning agents (Lithofin) suitable for the floor covering must be used.

Note

The information in our safety data sheets must be observed. For commercial users only!

Additional information

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

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

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Technical data according to ARDEX quality standard

Material requirements

Material requirement approx.	Condition	Length in cm	Width in cm	Consumption
	For joint width 3 mm, joint depth 30 mm, for tile formats from	60	40	0.70 kg/m ²
	For joint width 3 mm, joint depth 30 mm, for tile formats from	40	40	0.80 kg/m ²
	For joint width 3 mm, joint depth 30 mm, for tile formats from	30	30	1.00 kg/m ²
	For joint width 10 mm, joint depth 30 mm, for small paving stones from	10	12	8.60 kg/m ²
	For joint width 10 mm, joint depth 30 mm, for small paving stones from	8	10	10.30 kg/m ²
	For joint width 10 mm, joint depth 30 mm, for small paving stones from	6	8	13.00 kg/m ²

Fresh weight approx.	1,70 kg/l
Processing temperature	+5°C to +25°C
Material temperature	+5°C to +25°C
Substrate temperature	+5°C to +25°C
Walkable	Fully loadable after 24 hours, after 7 days

Application properties

Processing time approx.	45 Minute(s)
Application Ambient conditions	+20°C

Mechanical properties

Bending tensile strength approx.	Bending tensile strength approx. 8.0 N/mm ²
Compressive strength approx.	Compressive strength of approx. 16.0 N/mm ²

Product details

Labelling according to GHS/CLP	See relevant safety data sheet
Labelling according to ADR	See relevant safety data sheet
Packaging	PP bucket with 25 kg net weight
Storage	Can be stored in dry rooms for approx. 18 months in the original sealed container.