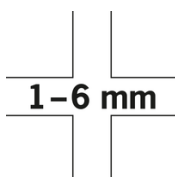




ARDEX RG 12 1-6

Ultra fine epoxide grout

- For joint widths from 1 to 6 mm
- Very fine and smooth joint surface
- Easy to insert and wash
- High filling level
- Highly resilient



Colours

anthracite, bahama beige, basalt, grey, grey-brown, sand grey, silver grey, white

Area of application

Indoor and outdoor. Walls and floors.

Colour-stable and chemical-resistant grouting of ceramic tiles, slabs, clinker bricks, Split tiles and mosaics subject to stresses that cementitious mortars cannot withstand or are not resistant to, e.g. in moderately stressed commercial kitchens, workshops, washing bays, swimming pools and spas, shower rooms, bathrooms, sales rooms, sports and leisure facilities, commercial areas and other areas subject to chemical or high mechanical stresses.

Bonding of tiles, slabs and mosaics made of glass and porcelain on floor areas.

ARDEX RG 12 1-6 Ultra fine epoxide grout is processed at temperatures between +10°C and +30°C.

Classification according to EN 13888:

RG = Reaction resin grout

Art

Joint mortar consisting of a paste-like resin and hardener component.

The 4 kg unit consists of:

- 3.2 kg resin paste and
- 0.8 kg hardener.

The 1 kg unit consists of:

- 0.8 kg resin paste and
- 0.2 kg hardener.

Processing

Mixing

The resin and hardener components, which are matched in terms of quantity in the containers, must be mixed together thoroughly and intensively using a suitable mixer, e.g. a basket or spiral mixer, to form a uniform and homogeneous mortar. We recommend a mixing time of between 1 and 3 minutes, depending on the container size. The edges of the mixing units must be scraped out with a trowel during the mixing process. Alternatively, the material can be transferred to another container. The material must then be mixed thoroughly again.

Application

ARDEX RG 12 1-6 Epoxy Grout, Fine can be processed at temperatures between +18°C and +20°C for approx. 45 minutes. Lower temperatures extend, higher temperatures shorten the working time.

ARDEX RG 12 1-6

Ultra fine epoxide grout

ARDEX RG 12 1-6 is applied to the dry joints with an epoxy jointing board, plastic or rubber trowel and wiped off sharply. ARDEX RG 12 1-6 can also be applied by spraying.

1. Washing process

The first washing process can be carried out within a time window of 20 – 40 minutes after grouting. The grouted wall or floor areas should be moistened with a little water using a pump sprayer.

To emulsify the surfaces and smooth the joints, either a fine sponge or a sponge board can be used without additional water. The washing water should be changed approx. every 7–10 m². For very rough surfaces, a white Scotch-Brite pad can also be used for pre-washing.

The dissolved resin residues are also removed with a fine sponge or sponge board.

For large areas, we recommend removing the dirty water with a wet vacuum cleaner.

Important: Loosened resin residues must not be allowed to dry on the surface.

2. Washing process

The second washing process takes place 20 minutes after the 1. Washing process. Both washing processes should be completed approx.

60 minutes after grouting. To make it easier to clean off the resin residues, the second washing process is carried out with a mixture of ARDEX RG Cleaner and water in a mixing ratio of approx. 1 : 10, using a pump sprayer and a viscose sponge board.

Rinse:

If resin residue remains on the surface after the two washing processes, follow-up cleaning is necessary.

Any subsequent cleaning of the surfaces should be carried out the next day with a mixture of ARDEX RG Cleaner and water in a mixing ratio of approx. 1 : 5, using a pump sprayer, a white Scotch sponge and a viscose sponge board.

For heavier soiling, ARDEX RG Cleaner can be applied undiluted and rubbed in.

The ARDEX RG Cleaner/water mixture should be left to work for between 15 and 30 minutes, depending on the degree of soiling.

For heavier soiling, repeat the process and increase the application time to 60 minutes. Make sure that the cleaner does not dry out.

During subsequent cleaning, make sure that dissolved resin residues do not dry out!

The drying time can be extended by covering with a plastic sheet. Please also observe the instructions in the ARDEX RG Cleaner Technical Data Sheet.

Do not use spirit-based/acidic cleaners for washing. ARDEX RG 12-6 must not be exposed to acidic cleaning agents for at least 7 days, as this may cause irreversible discolouration of the grout.

Load capacity

ARDEX RG 12 1-6 Ultra fine epoxide grout can be walked on and subjected to mechanical stress after just 12 hours of curing at temperatures between +18°C and +20°C.

ARDEX RG 12 1-6 is waterproof, frost and weather resistant after hardening and can be used in a temperature range from –20°C to +80°C.

Chemical resistance

ARDEX RG 12 1-6 is resistant to chlorinated water, standard cleaning agents, aqueous salt solutions, mineral oil, grease, alkalis and fruit juices (see Technical Data) 3-4 days after curing. Full chemical resistance is achieved at temperatures between +18°C and +20°C after approx. 7 days. Please enquire for special cases. The smooth and closed surface of the grout is insensitive to dirt and resistant to household and swimming pool cleaners.

Chemical resistance according to AQS

Resistant to:

- Acetone
- Pure all-purpose cleaner
- Formaldehyde 1%
- Ammonia, concentrated
- Bref cleaner, undiluted
- Cilit Bäng cleaner, pure
- DanKlorix (green) pure
- Acetic acid 5%
- Ethyl alcohol
- Ethylene glycol
- Fixing solution (photographic)
- Formalin solution 3%
- Glycerine
- Urea solution
- Potassium hydroxide, saturated
- Motor vehicle petrol
- Methyl alcohol 50%
- Lactic acid 5%
- Lactic acid 10%
- Lactic acid 20%
- Moor water
- Engine oil
- Sodium hydroxide solution, saturated
- vegetable fats
- Phosphoric acid 10%
- Phosphoric acid 40%
- Nitric acid 10%
- animal fats
- Hydrogen peroxide 8%
- Tartaric acid, saturated
- Citric acid, saturated
- Sugar solution

Substances not listed are available on request.

Bonding

ARDEX RG 12 1-6 Ultra fine epoxide grout is also suitable for bonding tiles, slabs and mosaics made of glass and porcelain to floor areas. ARDEX WA Epoxy Grout/Adhesive is recommended for bonding to wall surfaces.

Please note

Slight hardening of the resin component during storage does not affect the quality of ARDEX RG 12 1-6.

ARDEX RG 12 1-6

Ultra fine epoxide grout

To avoid shortening the working time due to self-heating, it is recommended to apply ARDEX RG 12 1-6 mortar immediately after mixing in a single operation or to apply it to the substrate.

Textured tiles and slabs and those with porous surfaces may show residual haze after grouting. Create test areas and follow the instructions of the tile and slab manufacturer. For re-grouting, the joint depth should be at least 5 mm. Excess material should not be removed with hot water.

Do not use thinners, solvents or water to adjust the consistency of the mortar. Colour changes cannot be ruled out with intensely coloured substances such as tea, coffee, fruit juices, etc.

Tools can be cleaned with water and a brush or with ARDEX CW cleaning cloths before the mortar hardens.

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

Mixing ratio	Specified by the container
--------------	----------------------------

Fresh weight approx.	1,70 kg/l
----------------------	-----------

Material requirements

Material required for grouting approx.	Tile size	Joint width	Joint depth	Consumption
	2 x 2 cm	2 mm	3 mm	1.00 kg/m ²
	5 x 5 cm	3 mm	5 mm	1.00 kg/m ²
	15 x 15 cm	2 mm	4 mm	0.18 kg/m ²
	30 x 60 cm	2 mm	7 mm	0.12 kg/m ²

Material required for gluing approx.	Material requirements	Toothing (mm)	Condition
	1.30 kg/m ²	3 x 3 x 3	On smooth substrates
	2.50 kg/m ²	6 x 6 x 6	On smooth substrates (floor only)
	3.10 kg/m ²	8 x 8 x 8	On smooth substrates (floor only)

Note	The additional losses due to excess material on the tiles amount to 0.10 - 0.20 kg/m ² , depending on the type of tile and working method.
------	---

Application properties

Processing time approx.	45 Minute(s)
Insertion time (EN 1346) approx.	30 Minutes
Correction time approx.	30 Minutes
Can be walked on after approx.	12 Hours with sufficient hardening
Chemically resistant after approx.	7 Day(s)
Application Ambient conditions	+20°C

Mechanical properties

Adhesive tensile strength approx.	Ambient condition	Bond strength	Time
	Dry storage	2.5 N/mm ²	After 28 days
Bending tensile strength approx.	Time	Bending tensile strength approx.	
	After 1 day	30 N/mm ²	
	After 28 days	33 N/mm ²	
Compressive strength approx.	Time	Compressive strength of approx.	
	After 1 day	55 N/mm ²	
	After 28 days	70 N/mm ²	

ARDEX RG 12 1-6

Ultra fine epoxide grout

Product details

Tested according to DIN EN 13888	RG	
Labelling according to GHS/CLP	Labelling according to GHS/CLP See relevant safety data sheet See relevant safety data sheet	Component Resin Hardener
Self-service regulation	2	
Labelling according to ADR	Component Resin Hardener	Labelling according to ADR See relevant safety data sheet See relevant safety data sheet
Packaging	4 kg bucket: 3.2 kg resin paste, insert can with 0.8 kg hardener 1 kg cans: 0.8 kg resin paste, insert can with 0.2 kg hardener	
Storage	Store in dry rooms. Store buckets upright, do not tip! ARDEX RG 12 1-6 can be stored for approx. 12 months in its original sealed container. Setting of the resin component during storage has no effect on the quality of ARDEX RG 12 1-6.	

