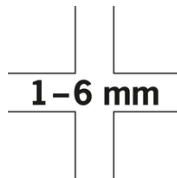




ARDEX RG 12 1-6

Fine Epoxy Grout

- For joint widths from 1 to 6 mm
- Very fine and smooth joint surface
- Easy to apply and wash
- High filling capacity
- Highly durable



Colors

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

Areas of Application

For interior and exterior use. Suitable for walls and floors, for joint widths from 1–6 mm. Color-stable and chemically resistant grouting of ceramic tiles, slabs, clinker, split tiles, and mosaic in areas where cement-based mortars are insufficiently resistant or durable—e.g., moderately loaded commercial kitchens, workshops, car washes, swimming pools and spa facilities, shower rooms, bathrooms, retail areas, sports and leisure facilities, commercial floors, and other environments subject to chemical or heavy mechanical loads.

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For bonding glass and porcelain tiles or mosaics on floor surfaces.

ARDEX RG 12 1-6 should be applied at temperatures between +10°C and +30°C.

Classification according to EN 13888:

RG = Reaction Resin Grout

Product Type

Grout consisting of a pasty resin component and a hardener component.

A 4-kg unit consists of 3.2 kg resin paste and 0.8 kg hardener.

A 1-kg unit consists of 0.8 kg resin paste and 0.2 kg hardener.

Mixing

The resin and hardener components contained in the packaging—pre-measured to match exactly—must be combined completely and mixed thoroughly using a suitable mechanical mixer, such as a basket or spiral paddle, until a uniform and homogeneous mortar is achieved.

A mixing time of 1–3 minutes is recommended, depending on the container size.

During mixing, the sides of the mixing container should be scraped down with a trowel.

Alternatively, the material can be transferred into a clean container and mixed again.

Manufacturer certified to DIN EN ISO 9001/14001
 for quality and environmental management systems



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Application

At temperatures between +18°C and +20°C, ARDEX RG 12 1-6 has a working time of approx. 45 minutes. Lower temperatures extend, and higher temperatures shorten the working time.

Apply ARDEX RG 12 1-6 into dry joints using an epoxy float, plastic spatula, or rubber trowel and strike off cleanly. The product can also be applied by spray equipment.

1st Washing Process

The first wash can be carried out 20–40 minutes after grouting. Lightly mist the grouted wall or floor surface with water using a pump sprayer.

To emulsify the surface and smooth the joints, either a fine sponge or sponge float may be used without additional water.

The wash water should be replaced approximately every 7–10 m².

For very rough surfaces, a white Scotch-Brite pad can be used for the initial wash.

Residual resin on the surface should be removed using a fine sponge or sponge float.

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

Important: Dissolved resin residues must not be allowed to dry on the surface!

2nd Waschvorgang

The second wash is performed 20 minutes after the first wash. Both washing steps should be completed approximately 60 minutes after grouting.

To ease removal of resin residues, the second wash is carried out using a mixture of ARDEX RG Cleaner and water at approx. 1:10, applied with a pump sprayer and a viscose sponge.

Final Cleaning (Next Day)

If resin residues remain after the two washes, additional cleaning is required the following day.

Use ARDEX RG Cleaner mixed with water at approx. 1:5, applied with a pump sprayer, a white Scotch pad, and a viscose sponge.

For heavy soiling, ARDEX RG Cleaner can be applied undiluted and worked into the surface.

Allow 15–30 minutes dwell time depending on the level of contamination.

For stubborn residues, repeat the process and extend dwell time to 60 minutes.

Ensure the cleaner does not dry out.

To prevent drying, cover the treated surface with plastic film if needed.

Refer also to the ARDEX RG Cleaner Technical Data Sheet. Do not use spirit-based or acidic cleaners for the washing steps.

Acid-based cleaners must not be used on ARDEX RG 12 1-6 within the first 7 days after application, as irreversible discoloration may occur.

Loadability

ARDEX RG 12 1-6 becomes walkable and mechanically loadable after approx. 12 hours curing at +18°C to +20°C. Once hardened, it is waterproof, frost- and weather-resistant, and can be used within a temperature range from –20°C to +80°C.

Chemical Resistance

3–4 days after curing, ARDEX RG 12 1-6 is resistant to chlorinated water, standard cleaning agents, aqueous salt solutions, mineral oil, fats, alkalis, and fruit juices (see Technical Data).

Full chemical resistance is achieved after approx. 7 days at +18°C to +20°C.

For special applications, consultation is recommended. The smooth, closed joint surface is resistant to dirt and household/swimming pool cleaners.

Chemical Resistance according to AQS Resistant to:

- Acetone
- All-purpose cleaner (undiluted)
- Formic acid 1%
- Ammonia, concentrated
- Bref cleaner undiluted
- Cilit Bang cleaner undiluted
- DanKlorix (green) undiluted
- Acetic acid 5%
- Ethanol
- Ethylene glycol
- Fixing solution (photography)
- Formalin solution 3%
- Glycerine
- Urea solution
- Potassium hydroxide, saturated
- Motor gasoline
- Methanol 50%
- Lactic acid 5%, 10%, 20%
- Bog water
- Motor oil
- Sodium hydroxide, saturated
- Vegetable fats
- Phosphoric acid 10% and 40%
- Nitric acid 10%
- Animal fats
- Hydrogen peroxide 8%
- Tartaric acid, saturated
- Citric acid, saturated
- Sugar solution

Other substances available on request.



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Bonding

ARDEX RG 12 1-6 is also suitable for bonding tiles, slabs, and mosaics made of glass and porcelain on floor surfaces.

For bonding on walls, ARDEX WA epoxy grout/adhesive is recommended.

Important Notes

To prevent a shortened working time due to self-heating, apply the mixed ARDEX RG 12 1-6 mortar immediately in one continuous operation.

Structured, textured, or porous tiles may show residual haze after grouting. Conduct test areas and follow tile manufacturer recommendations.

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 mortar consistency.

Color changes may occur when exposed to strongly staining substances such as tea, coffee, fruit juices, etc. Tools can be cleaned with water and a brush before the mortar hardens, or using ARDEX CW cleaning wipes.

Refer to the safety data sheets for additional information.

Safety Information

Resin Component: Contains epoxy compounds.

May cause allergic reactions.

Causes skin irritation.

May cause allergic skin reactions.

Causes serious eye irritation.

Harmful to aquatic life with long-lasting effects.

Avoid release into the environment.

Wear protective gloves and eye protection.

If in eyes: Rinse cautiously with water for several minutes.

Remove contact lenses if present and easy to do.

Continue rinsing.

If on skin: Wash with plenty of water and soap.

Hardener Component: Causes skin irritation.

May cause allergic skin reactions.

Causes serious eye damage.

Harmful to aquatic life with long-lasting effects.

Avoid release into the environment.

Wear protective gloves and eye protection.

If in eyes: Rinse cautiously with water for several minutes.

Remove contact lenses if possible. Continue rinsing.

If on skin: Wash with plenty of water and soap.

Dispose of contents/container in accordance with local/regional/national/international regulations.

Technical Data (ARDEX Quality Standards)

Mixing Ratio	Pre-set by the packaging
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Fresh Density Approx.	1,70 kg/l
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Material Consumption

Material Consumption 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 Consumption for Bonding Approx.	Consumption	Notch (mm)	Condition
	1,30 kg/m ²	3 x 3 x 3	smooth substrate
	2,50 kg/m ²	6 x 6 x 6	smooth substrate (floor only)
	3,10 kg/m ²	8 x 8 x 8	smooth substrate (floor only)

Note	Material loss due to excess can vary between 0.10–0.20 kg/m ² depending on tile type and working method.
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Application Characteristics

Working time approx.	45 minutes
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Open time (EN 1346) approx.	30 minutes
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Adjustment time approx.	30 minutes
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Walkable after approx.	12 hours (with sufficient hardening)
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Application conditions	+20°C
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Mechanical Properties

Tensile Adhesion Strength Approx.	Time after 28 days	Tensile Adhesion Strength 2,5 N/mm ²
Flexural Strength Approx.	Time after 1 day after 28 days	Flexural Strength 30 N/mm ² 33 N/mm ²
Compressive Strength Approx.	Time after 1 day after 28 days	Compressive Strength 55 N/mm ² 70 N/mm ²

Product Information


GHS/CLP Labelling	Component Resin Hardener	GHS/CLP Labelling GHS07 "irritant", Signal word: Warning GHS05 "corrosive", GHS07 "irritant", Signal word: Danger
ADR Classification	Component Resin Hardener	ADR Classification None None
Packaging	4-kg bucket: 3.2 kg resin paste + 0.8 kg hardener. 1-kg tub: 0.8 kg resin paste + 0.2 kg hardener	
Storage	Store in dry rooms. Buckets must be stored upright; do not tilt. ARDEX RG 12 1-6 has a shelf life of approx. 12 months in original sealed packaging. Thickening of the resin component during storage has no impact on product quality.	

Application Consulting

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Fine Epoxy Grout

	
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24030	
EN 12004:2007+A1:2012	
24030 ARDEX RG 12 1-6, EN 12004:R2	
Reaktionsharzklebstoff für erhöhte Anforderungen für Fliesen- und Plattenarbeiten im Innen- und Außenbereich	
Brandverhalten:	E
Verbundfestigkeit	
Haftscherfestigkeit nach Trockenlagerung:	≥ 2,0 N/mm ²
Dauerhaftigkeit	
Haftscherfestigkeit nach Temperaturwechsel:	≥ 2,0 N/mm ²
Haftscherfestigkeit nach Wasserlagerung:	≥ 2,0 N/mm ²
Freisetzung gefährlicher Stoffe:	NPD