



RG1 Ultimate Epoxy Grout

**Impervious, Water Wipeable, 3-Part Epoxy
Wall & Floor Grout, 2-6mm**

**2-6mm
Joint Width / 40-60 mins
Pot Life / 24 hours
Set Time**

- Impervious / Waterproof
- High Strength / Flexible
- Good Chemical Resistance
- Suitable for Hygiene Critical Areas
- Easy Clean / Water Wipeable
- Anti-Mould Technology
- Colour Matched Silicones & Expansion Joints
- Interior / Exterior / Domestic / Commercial

DESCRIPTION

ROCATEX RG1 Ultimate Epoxy Grout is a 3-part, epoxy resin-based grout developed to provide a unique water wipeable wash-off system. It creates an impervious, waterproof tile joint with excellent mechanical strength which is resistant to chemical attack. Suitable for interior and exterior wall and floor grout joints between 2-6mm.

PREPARATION

The joints must be clean, free of dust and free from adhesive to at least 2/3 of the thickness of the tiles. Any adhesive or mortar which has seeped into the joints whilst laying the tiles must be removed whilst still fresh. Ensure the adhesive has set and most of the moisture has been lost. ROCATEX RG1 Ultimate Epoxy Grout is not harmed by damp from the base but the joints must not be wet when grouting.

MIXING

Add the curing agent (PART B) to the pigmented epoxy resin (PART A) and mix thoroughly until a uniform colour is achieved. Pour the mixed liquid into the larger mixing bucket and slowly add the filler aggregate (PART C) and continue to mix for 3-4 minutes until a uniform consistency has been achieved. Use a slow-speed electric mixer to guarantee perfect blending and to avoid overheating of the mix which could reduce working times.

APPLICATION

Apply the grout by using a hard rubber grout float or squeegee, ensuring that the joints are completely filled. Tile spacers must be removed from all joints. Remove any excess grout (this can be done with the edge of the same float) and clean the tile surface with a fine textured sponge or white emulsifying pad dampened with water. Do not over wet the sponge/pad and pass over the tiles at 45° to avoid removing grout from the joint. Rinse the sponge/pad often with clean water and replace it when it becomes too impregnated with resin. Within 24 hours of grouting, any remaining haze can be removed with a white emulsifying pad. The tiles should not be subjected to normal service conditions until the grout has cured, usually 24 - 48 hours depending on the temperatures applied. Do not apply if frost is forecast within 24 hours, in wet conditions, in temperatures below 8°C or above 30°C, to areas in direct sunlight or to substrates that are hot.

Notes

Once hardened, epoxy grouts are very difficult to remove, therefore, care must be taken to remove all traces of grout from the surface of tiles before the grout has cured.

Textured porcelain tiles should first be protected with ROCATEX C-10 Ultimate Sealer which is an effective water-based pre-grout treatment for use on all types of textured porcelain tiles, both internally and externally.

ROCATEX

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It helps with grout and jointing compound release from rough textured surfaces. See separate technical data sheet.

When using pigmented grouts, it is advisable to carry out initial tests to ensure that staining on the tiles does not occur, especially those with textured surfaces, matt glazes, unglazed or quarry tiles. Apply the grout to a few tiles before fixing to check for any staining and ease of cleaning off.

COVERAGE

Coverage is dependent on the tile dimensions and joint width. It can be calculated using the product calculator on the ROCATEX website and app or with the formula below, all measurements in mm.

- Add: length and breadth of tile together
- Multiply: result by joint width
- Multiply: result by joint depth
- Multiply: result by 1.6 (coverage figure for ROCATEX RG1 Ultimate Epoxy Grout)
- Divide: result by length of tile
- Divide: result by breadth of tile

The result is the material requirement in kg per square metre.

$$\frac{(A+B) \times C \times D \times 1.6}{A \times B} = \text{kg/m}^2$$

STORAGE

Store unopened, clear of the ground, in a cool, dry, frost free environment.

Shelf life: 24 months

Storage temperature: 5°C - 35°C

TECHNICAL DATA

Conformity: Conforms to the requirements of BS EN 13888 Class RG1

Application temperature: 8°C - 30°C

Pot life: 40 - 60 mins at 20°C

Set time: 24 hrs at 20°C (walk on)

7 days at 20°C (full cure)

Joint width: 2 - 6mm

Sizes: 2kg

HEALTH & SAFETY

PART A: Epoxy resin [UN3082].

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Toxic to aquatic life with long lasting effects. Avoid breathing dust, fumes, gas, mist, vapours, spray. Wash hands thoroughly after handling. Wear protective gloves, protective clothing, eye protection, face protection. IF ON SKIN: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.

PART B: Benzene-1,3-dimethanamine (MXDA) Trimethylhexane-1,6-diamene [UN2735].

Harmful if swallowed or if inhaled. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Suspected of damaging fertility. Suspected of damaging the unborn child. Very toxic to aquatic life with long lasting effects. Do not get in eyes, on skin or on clothing. Avoid release to the environment. Wear protective clothing, eye protection, face protection. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Immediately call a doctor. If skin irritation or rash occurs, get medical advice/attention. Collect spillage.

CHEMICAL RESISTANCE INFORMATION

Based on PR-5C & PR-2 (Cured System)

<u>Media</u>	<u>Resistance</u>	<u>Media</u>	<u>Resistance</u>
Acetic Acid (5%)	Fair	Hydrochloric Acids (diluted)	Good
Aluminium Bromide	Very Good	Kerosene	Very Good
Aluminium Fluoride	Very Good	Lactic Acid (3%)	Fair
Ammonium Bromide (5%)	Fair	Lubricating Oils	Very Good
Baking Soda	Excellent	Milk	Very Good
Barium Hydroxide	Excellent	Nitrates	Very Good
Beer	Very Good	Oleic Acid	Good
Boric Acid	Very Good	Petroleum Products	Very Good
Calcium Chloride	Excellent	Phosphoric Acid (10%)	Fair
Calcium Hydroxide	Excellent	Potassium Hydroxide	Very Good
Carbonates	Excellent	Silicates	Very Good
Carbonic Acid	Very Good	Sodium Carbonate	Excellent
Chlorides	Very Good	Sodium Hydroxide	Good
Citric Acid	Good	Sulphates	Very Good
Diesel Oil	Excellent	Sugars	Excellent
Dilute Detergents	Excellent	Sodium Chloride	Excellent
Fats	Good	Tannic Acid	Very Good
Ferric Chloride	Very Good	Tetrahydronaphthalein	Good
Fluorides (except HF)	Very Good	Vegetable Oils	Excellent
Gasoline	Very Good	Water	Excellent
Household Ammonia	Good	Proprietary Sterilising Agents	Very Good
Hydrobromic Acid	Fair	n-Butanol	Very Good
Ethanol	Good	Methanol	Fair
Chlorinated Paraffin	Good	1,1,1-Trichloroethane	Very Good
Ethylene Glycol	Excellent	Polypropylene Glycol	Excellent
Heptanes	Excellent	Paraffin Wax	Excellent
Pine Oil	Excellent	White Spirit	Very Good
Castor Oil	Excellent	Coconut Oil	Excellent
Cotton Seed Oil	Excellent	Fish Oil	Excellent
Ground Nut Oil	Excellent	Linseed Oil	Excellent
Olive Oil	Excellent	Palm Kernel Oil	Excellent
Palm Oil	Excellent	Soya Bean Oil	Excellent
Sunflower Seed Oil	Excellent	Acetone	Fair
Acetyl Bromide	Good	Benzene	Fair
Butyl Acetate	Good	Carbon Tetrachloride	Good
Carbon Disulphide	Fair	Ethyl Alcohol	Good
Sulphuric Acid (45%)	Fair	Nitric Acid (10%)	Good
Lime Juice	Good	Sodium Hypo chlorite Solution (15% available chlorine)	Excellent
SPLASH CONTACT only		Hydrogen Peroxide (remove spillage ASAP)	Fair to Good
Acetic Acid (10%)			
Phenol			
Chloroform			