



floor epoxy

Hygienic Impervious Epoxy Grout for Floors

DESCRIPTION

Three-part hygienic impervious epoxy resin tile grout for floors.

Use for

- Grouting floor tiles in dry or wet interior and exterior environments that require joints with high resistance to chemical attack, abrasion and impact.
- For joint widths: up to **20mm**
- Recommended for large installations including food preparation/processing plants, swimming pools/sports and leisure centres, shopping malls/supermarkets, hospitals and industrial/chemical plants.
- Also suitable as a tile adhesive for chemical plants with metallic backgrounds, and for areas requiring chemical resistance.

NOTE: For further information, contact the BAL TECHNICAL ADVISORY SERVICE.

Restrictions: NOT suitable for

- Grouting tiles with metal décor/lustre, and soft-glazed tiles.

PRODUCT INFORMATION

Composition: Epoxide resin-based formulation comprising liquid resin, liquid hardener and powder filler.

Colour: Grey

Type/Classification: Exceeds BS EN 13888 **RG1**

Also satisfies requirements of The Food Safety (General Food Hygiene) Regulations 1995.

Pack size: 10kg

Key features: Highly resistant to chemicals. Hard-wearing: high resistance to abrasion/impact. Impervious. Cures in 24 hours.

USAGE & SERVICE CONDITIONS

Walls (1)	✓	Floors	✓
Worktops	✓	Interior	✓
Exterior	✓	Dry	✓
Wet	✓	Showers (2)	✓
Hydrotherapy Pools (3)			✓
Swimming Pools (3)			✓
Hygienic/Sterile areas			✓
Chemical resistance			✓
Heavily Trafficked Floors			✓

- (1) See wall application
- (2) Do not use shower for at least 2 weeks following completion of grouting – BS 5385:Part 4:2009, clauses 7.2.1.
- (3) Do not fill pool for at least 3 weeks following completion of grouting – BS 5385:Part 4:2009, clause 7.2.10.

APPLICATION AREAS

Abattoirs	✓
Breweries/Bakeries	✓
Chemical Plants	✓
Dairies/Food/Drink Processing Plants	✓
Changing Rooms	✓
Hospitals/Medical/Dental/Veterinary Surgeries	✓
Industrial Plant Rooms	✓
Kitchens Commercial & Domestic	✓
Shopping Malls/Supermarkets	✓
Sports/Leisure Centres	✓

Mix/Usage Data		
Pot Life at 20°C	Cure Time at 20°C*	Specific Gravity
60 mins	24 hours	1.75g/cm ³

* Drying time will be extended in colder temperatures, when fixing to impervious backgrounds or when fixing tiles of low porosity.

Coverage		
Tile Size	Joint Width	Typical Coverage
200x200x9mm	3mm	2.2m ² /kg
300x300x9mm	3mm	3.25m ² /kg

Temperature Resistance
Prolonged: -30°C to 70°C Intermittent: up to 100°C

SURFACE PREPARATION

General

Before grouting, ensure that:

1. Installed tiles are appropriate for the service conditions of the environment – and fixed on a solid-bed of adhesive.
2. Tile adhesive has fully set, as indicated on adhesive packaging.
3. Open joints are protected from contamination – and are clean, dry and free from loose debris.

IMPORTANT NOTE: Ensure adequate ventilation – and do NOT use in temperatures below 5°C or in damp conditions.

If grouting externally, provide protection against inclement weather during grouting and for as long as possible afterwards.

If grouting adjacent to food preparation areas, ensure physical segregation of work area before grouting.

MIXING

1. Before use, shake the bottle of hardener and stir the resin.
2. Add all of hardener to all of resin in suitable clean container and mix thoroughly.

NOTE: If using electric drill mixer, blend at slow speed (i.e. under 300rpm).

COLOUR OPTION: Colour mix pigment may be added (up to max. 7% by weight). Add to liquid in small quantities and disperse thoroughly before filler is added. To assess colour, check pigmented grout when set.

3. Slowly add required quantity of filler and mix thoroughly until powder is dispersed and uniform colour achieved. Avoid entraining air by mixing at too high speed or by over-mixing.

NOTE: Quantity of filler should be adjusted for:

- Ambient temperature: less required when colder (25% less in winter conditions), more when warmer.
- Grouting at certain points: stiffer consistency required to ‘stop’ open-ended joints or grout skirting tiles.

APPLICATION

Grouting procedure

1. Check potential staining risk: apply grout to a few tiles in small trial area. If discolouration occurs or difficulties are encountered with cleaning off (surplus grout), apply BAL PROTECTIVE SEALER – and repeat trial.
2. Use a stiffer mix to plug open-ended joints and prevent grout slumping.

Recommendation: use a hard rubber float.

3. Pour mixed grout onto tile surface.
4. Working in small areas, completely fill tile joints and compact well, removing excess grout from tile surface as work proceeds.

Cleaning off

5. Must be within 30 minutes of application. Emulsify grout using emulsifying pad or a rotary cleaner with emulsifying pad attachment. Use circular motion, keeping pad and gripper flat relative to surface to achieve flush joint.

NOTE: Warm water helps emulsification, though is not essential. Do NOT allow water to enter ungrouted joints.

6. Using a fine dampened sponge, remove emulsified Epoxy/water residue, cleaning diagonally to grout lines and taking care not to drag grout from joints. Strike off excess diagonally from grout lines.

7. Clean any remaining light haze from the surface next day, using an emulsifying pad and gripper.

NOTE: Do not allow haze to remain on tile surfaces for more than 24 hours.

IMPORTANT NOTE: *If working in food processing/preparation/storage areas, keep tiles/mosaics dry and do NOT bring floor into service until Epoxy grout is hard/cured. Avoid contact between food and tiling for at least 7 days after grouting.*

CHEMICAL RESISTANCE

Chemical	Floor Epoxy	Chemical	Floor Epoxy
Acetic Acid (5%)	★★	Heptane	★★★
Acetic Acid (10%)	★	Household Ammonia	★★
Acetone	★	Hydrobromic Acid	★★
Acetyl Bromide	★	Hydrochloric Acid (dil)	★★
Aluminium Bromide	★★★	Kerosene	★★★
Aluminium Fluoride	★★★	Lactic Acid (3%)	★★
Ammonium Bromide (5%)	★★	Lime Juice	★
Baking Soda	★★★	Linseed Oil	★★★
Barium Hydroxide	★★★	Lubricating Oils	★★★
Beer	★★★	Methanol	★★
Benzene	★	Milk	★★★
Boric Acid	★★★	Nitrates	★★★
n-Butanol	★★★	Nitric Acid (10%)	★
Butyl Acetate	★	Oleic Acid	★★★
Calcium Chloride	★★★	Palm Kernel Oil	★★★
Calcium Hydroxide	★★★	Palm Oil	★★★
Carbon Disulphide	★	Paraffin Wax	★★★
Carbon Tetrachloride	★	Petroleum Products	★★★
Carbonates	★★★	Phenol	★
Carbonic Acid	★★★	Phosphoric Acid (10%)	★★
Castor Oil	★★★	Pine Oil	★★★
Chlorides	★★★	Polypropylene Glycol	★★★
Chlorinated Paraffin	★★★	Potassium Hydroxide	★★★
Chloroform	★	Proprietary Sterilising Agents	★★★
Chromic Acid	★	Silicates	★★★
Citric Acid	★★★	Sodium Carbonate	★★★
Coconut Oil	★★★	Sodium Chloride	★★★
Cotton Seed Oil	★★★	Sodium Hydroxide	★★
Diesel Oil	★★★	Sodium Hypochlorite Soln.*	★★★
Dilute Detergents	★★★	Soya Bean Oil	★★★
Ethanol	★★★	Sugars	★★★
Ethyl Alcohol	★	Sulphates	★★★
Ethylene Glycol	★★★	Sulphuric Acid (45%)	★
Fats	★★★	Sunflower Seed Oil	★★★
Ferric Chloride	★★★	Tannic Acid	★★★
Fish Oil	★★★	Tetrahydronaphthalene	★★★
Fluorides (except HF)	★★★	1,1,1-Trichloroethane	★★★
Formic Acid	★	Vegetable Oils	★★★
Gasoline	★★★	Water	★★★
Ground Nut Oil	★★★	White Spirit	★★★

* (15% available chlorine)

★ Splash contact only

★★ Contact for max. 24 hours before washing off

★★★ Prolonged contact

HEALTH & SAFETY INFORMATION/ GOOD PRACTICE ADVICE

For detailed information and safety guidance, please refer to Product Material Safety Data Sheet [MSDS].

TECHNICAL ADVISORY SERVICE

For free expert guidance on use of this product, or any aspect of tiling, contact the BAL TECHNICAL ADVISORY AND SPECIFICATION SERVICE on
Tel: 01782 591120 or 0845 600 1 222 or Fax: 01782 591121.

POWERSPEC

A unique computerised online specification system for the design and installation of ceramic, mosaic and natural stone tiling. Visit www.powerspeconline.com

SHELF LIFE

12 months under normal dry conditions. Protect from frost and direct sunlight. Store between 5°C and 30°C.

QUALITY AND ENVIRONMENTAL STANDARDS

Manufacturing quality assurance standards conform to BS EN ISO 9001. Satisfies the environmental management requirements and operational scope of ISO 14001.

25 YEAR GUARANTEE

All BAL products are supplied with a 25 year product guarantee to be free from manufacturing defects and to be fit for purpose. The guarantee covers materials replacement costs and labour.

This guarantee is subject to use of product in accordance with BAL's instructions and technical data, and good working practice. No liability can be accepted for any loss or damage arising from incorrect use of products or poor workmanship, over which BAL has no control.

Contact BAL Marketing Department for full details.

CONDITIONS OF SALE

Sold subject to the Company's Conditions of Sale.
Available on request.

For sales and technical queries, contact:

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NOTE: BAL reserves the right to update instructions, technical data and other information at any time without notice.

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