Date Issued: MAY 2025

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 intermittent wet areas. Interior or exterior use.
- 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.

For WALL tiles grout use BAL ABSOLUTE GROUT.
For an epoxy adhesive BAL ABSOLUTE GROUT may be suitable depending on substrate.
NOTE: For further information, contact the BAL TECHNICAL ADVISORY SERVICE.

Restrictions: NOT suitable for

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

PRODUCT INFORMATION

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

Colours: Smoke & Ebony

Type/Classification: Exceeds BS EN 13888 **RG1**
Also satisfies requirements of The Food Safety (General Food Hygiene) Regulations 1995.
Pack sizes: 10kg

Key Features:

- Suitable for large installations including supermarkets / malls / swimming pools / sports centres / food preparation plants / hospitals / industrial plants.
- Highly chemical-resistant.
- Hard-wearing: high resistance to abrasion/impact.
- Impervious.

Cures in: 24 hours (at 20°C)

MIX/USAGE DATA

Pot Life at 20°C	Cure Time at 20°C **	Specific Gravity
60 mins	24 hours	1.75/cm³

*** 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	Coverage ^^
200x200x9mm	3mm	2.2m²/kg
300x300x9mm	3mm	3.25m²/kg

^^ Coverage may vary dependent on application.

TEMPERATURE RESISTANCE***

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

*** Cured grout.*

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.

IMPORTANT NOTE: Do NOT use in temperatures below 5°C or in damp conditions.

If grouting porous tiles in temperatures above 25°C, dampen joints with clean water prior to grouting.

If grouting externally, provide protection against inclement weather during grouting and for as long as possible afterwards. It is recommended that all external tiling applications include a DPM or a surface DPM can be applied prior to tiling (e.g. BAL DPM).

Recommendations:

- Provide waterproof tanking protection for tiling background substrates (e.g. by using BAL TANK IT or BAL WATERPROOF 1C).
- Ensure tiles are fixed with a solid bed with a water-resistant adhesive (e.g. BAL FLEX ONE, BAL RAPID-FLEX ONE or BAL XL FLOOR ONE).

MIXING

1. Before use, stir the 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).

3. Slowly add the 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.
4. Some of the mixed product should be re-introduced back into the resin and hardener containers in order to remove any residue. Pour back into the original mixing container and re-mix for 30 seconds.

Mixed Floor Epoxy grout working time at 20°C approx. 60 minutes.

APPLICATION AREAS

Bakeries/Breweries	✓
Cafes/Pubs/Restaurants	✓
Chemical Plants	✓
Changing Rooms (Spas, Jacuzzis)	✓
Dairies/Food/Drink Processing Plants	✓
Kitchens Commercial/Domestic	✓
Hospitals/Medical/Dental/Veterinary Surgeries	✓
Abattoirs	✓
Industrial Plant Rooms	✓
Shopping Malls/Supermarkets	✓
Sports/Leisure Centre	✓

USAGE & SERVICE CONDITIONS

Walls	×	Floor	✓
Interior	✓	Exterior	✓
Dry	✓	Wet (a)	✓
Worktops	✓	Showers (a)	✓
Swimming Pools (Floors) (b)	✓	Limited Movement / Vibration	✓
Hygienic / Sterile Areas	✓	Chemical Resistance	✓

NOTE:
(a) Do not use shower for at least 2 weeks after completion of grouting – BS 5385: Part 4 2015.
(b) Do not fill pool for at least 3 weeks after completion of grouting - BS 5385: Part 4 2015.

APPLICATION

1. Check potential staining risk especially when grouting quarry tiles and other tiles that are unglazed, matt-glazed or textured: 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 the grout from 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.

NOTE: Ensure that when installing in large areas that the grout is from the same batch to ensure consistency.

Cleaning off

5. Must be carried out within 30 minutes of application. Clean off the grout using emulsifying pads. 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 un-grouted joints.

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	★★★	Tetrahydronapthalene	★★★
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 03330 030160 Email: info@building-adhesives.com

SHELF LIFE
12 months under normal dry conditions. Protect from frost and damp.

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. While products may be suitable for installations internally or externally, products when used externally are exempt from cover under the BAL 25 Year Guarantee. Terms and conditions apply. Full details are available for your review at www.bal-adhesives.com.

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CONDITIONS OF SALE
Sold subject to the Company's Conditions of Sale. *Available on request.*

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