

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 a WALL tile grout use BAL Easyepoxy AG.

For an epoxy adhesive BAL Easyepoxy AG 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.

PRODUCT INFORMATION

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

Colour: Smoke & Ebony.

For other colours, contact BAL Sales Dept.

Performance to EN 13888:

- Abrasion resistance $\leq 150\text{mm}^3$
- Flexural strength, dry storage $\geq 25\text{N/mm}^2$
- Compressive strength, dry storage $\geq 50\text{N/mm}^2$
- Shrinkage $\leq 1.0\text{mm/m}$

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

Pack size: 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.

USAGE & SERVICE CONDITIONS

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

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 m ² /kg
300x300x9mm	3mm	3 m ² /kg

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

(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.

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 10°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, stir the hardener and stir the resin.
 2. Add all of hardener to all of resin in suitable clean container and mix thoroughly for approx. 1 minute.
- 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. Working time is extended at lower temperatures and reduced at higher temperatures. At higher temperatures. It is recommended that the grout is spread out immediately after mixing as self-heating in the container will reduce working time.

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 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 the grout using emulsifying pad. 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 non-grouted 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 INFORMATION

Chemical	Resistance	Media	Resistance
Acetic Acid (5%)	*	Hydrochloric Acids (dil)	**
Acetone	*		
Aluminium Bromide	**	Kerosene	**
Aluminium Fluoride	*	Lactic Acid (3%)	*
Ammonium Bromide (5%)	*	Lubricating Oils	**
Baking Soda	***	Milk	**
Barium Hydroxide	***	Nitrates	**
Beer	**	Nitric Acid (10%)	**
Benzene	*	Oleic acid	**
Boric Acid	**	Petroleum Products	**
Calcium Chloride	***	Phosphoric Acid (10%)	*
Carbon tetrachloride	**		
Calcium Hydroxide	***	Potassium Hydroxide	**
Carbonates	***	Silicates	**
Carbonic Acid	**	Sodium Carbonate	***
Chlorides	**	Sodium Hydroxide	**
Citric Acid	**	Sulphates	**
Diesel Oil	**	Sugars	**
Dilute Detergents	***	Sodium Chloride	***
Fats	**	Tannic Acid	**
Ferric Chloride	**	Tetrahydronaphthalene	**
Fluorides (except HF)	**	Vegetable Oils	**
Gasoline	**	Water	***
Household Ammonia	**	Proprietary Sterilising Agents	**
Hydrobromic Acid	*	n-Butanol	**
Ethanol	*	Methanol	*
Chlorinated Paraffin	**	1,1,1-Trichloroethane	**
Ethylene Glycol	***	Polypropylene Glycol	***
Heptanes	***	Paraffin Wax	***
Pine Oil	**	White Spirit	**
Castor Oil	**	Coconut Oil	**
Cotton Seed Oil	**	Fish oil	**
Ground Nut Oil	**	Linseed Oil	**
Olive Oil	**	Palm Kernel Oil	**
Palm Oil	**	Soya Bean Oil	**
Sunflower Seed Oil	**		
Acetyl Bromide	**		
Butyl Acetate	*		
Carbon Disulphide	*		
Sulphuric Acid (45%)	*		
Lime Juice	**	Sodium Hypo chlorite Solution (15% available chlorine)	***

*splash contact only

**contact for max 24hr 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.

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 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.

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.