

# microflex

## Antimicrobial wall tile grout for joints up to 5mm

### DESCRIPTION

Highly flexible, water/frost-resistant cementitious tile grout with built-in Microban® antimicrobial protection for walls.

### Use for

- Grouting porcelain, glazed and fully vitrified, glass and ceramic mosaics, marble and natural stone in dry and wet interior and exterior environments.
- Can also be used on some floors depending on tile type, area and traffic. Please contact BAL TECHNICAL ADVISORY AND SPECIFICATION SERVICE.
- For Joint widths: up to **5mm**
- Recommended for swimming pools and power showers

### Restrictions: NOT suitable for

- \*Food preparation/\*storage areas,\* Spas,\* Jacuzzis, \*Chemical Plants, Power Showers with body jets and areas requiring \*waterproof grouting.

\*Further applications by using a BAL Epoxy Grout.

### PRODUCT INFORMATION

**Composition:** Highly polymer-modified cement-based powder with built-in Microban®.

**Colours:** White, Ivory and Ebony.

**Type/Classification:** Exceeds BS EN 13888 **CG2WA** – Cementitious Grout with Improved / Additional Characteristics, Reduced Water Absorption and High Abrasion Resistance.

**Pack sizes:** 10kg and 3.5kg

### Key Features:

- Built-in Microban® antimicrobial protection
- Water/frost-resistant
- Highly polymer- modified for increased flexibility and high bond strength
- **Set in:** 24 hours (at 20°C)

Microban® antimicrobial protection: inhibit growth of bacteria (e.g. Listeria, Salmonella, E-Coli) and black mould. Provides added hygiene protection for bathrooms, showers and food consumption areas.

Active biocide used to treat the article:

p-[(diiodomethyl)sulphony]toluene.

### USAGE & SERVICE CONDITIONS

Walls	✓	Floor (3)	✓
Interior	✓	Exterior	✓
Dry	✓	Wet (4)	✓
Worktops (1)	✗	Showers (a)(1)(4)	✓
Swimming Pools (b)(2)	✓	Limited Movement / Vibration	✓

### APPLICATION AREAS

Leisure Centres	✓
Bathrooms	✓
Changing Rooms	✓
Restaurants/Food Consumption Areas	✓
Domestic Kitchens	✓
Shopping Malls	✓

### MIX/USAGE DATA

Powder:Water Ratio	Pot Life at 20°C	Cure Time at 20°C *	Specific Gravity
4:1	60 mins	24 hours	1.33/cm <sup>3</sup>

\*\* 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 ^^
200x100x6mm	3mm	2.65m <sup>2</sup> /kg
400x300x8mm	3mm	4.97m <sup>2</sup> /kg
600x200x8mm	2mm	6.49m <sup>2</sup> /kg
900x600x10mm	2mm	12.37m <sup>2</sup> /kg

^^Coverage may vary dependent on mixed grout and application.

### TEMPERATURE RESISTANCE\*\*\*

-30°C to 100°C

\*\*\* Cured grout.

(1) Tiles must be grouted using BAL EASYPOXY AG for Food preparation

/storage areas power showers with body jets/Spas/Jacuzzis/Chemical Plants.

(2) Tiles must be grouted using BAL EASYPOXY AG for wave pools.

(3) Used on some floors depending on tile type and traffic, contact BAL TECHNICAL SERVICES.

(4) In wet conditions tank out with BAL TANK IT or BAL WATERPROOFING KIT FOR SHOWERS.

(a) Do not use shower for at least 2 weeks after completion of grouting – BS 5385:Part 4

(b) Do not fill pool for at least 3 weeks after completion of grouting

## SURFACE PREPARATION

### General

Before grouting, ensure that:

1. Tile adhesive has fully set, as indicated on adhesive packaging or BAL TECHNICAL DATA SHEET.
2. Open joints clear from excess adhesive and are protected from contamination – and are clean, dry and free from loose debris.
3. Be consistent with the amount of clean cold water used with the cement based grout from mix to mix when grout larger areas.
4. Lighting conditions during the installation of tile fixing and grouting should not be 'Appreciably different' from the final (Permanent) lighting. Where possible, check the grout colour with the final lighting conditions.
5. Check colour consistency when using the same grout when applied between different tile types i.e. porous bodied or porous stone tiles vs. porcelain or denser stone.

**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.

If grouting shower installation, BAL MICROFLEX is water-resistant but NOT impervious to water and not a substitute for waterproof systems.

Recommendations:

- Provide waterproof tanking protection for tiling background substrates, particularly plaster or plasterboard (e.g. by using BAL TANK IT or BAL WATERPROOFING KIT FOR SHOWERS).
- Ensure tiles are fixed with a solid bed with a water-resistant adhesive (e.g. BAL WHITE STAR PLUS, BAL GRIP PLUS, BAL MAX FLEX FIBRE or BAL SINGLE PART FLEXIBLE).

### MIXING

Use a BAL MIXING BUCKET or other suitable bucket.

1. Slowly add approximately 4 parts powder to 1 part clean cold water by weight. (see table below)
2. Mix until lump-free mortar achieved.
3. Allow mixed grout to stand for 2-3 minutes before re-mixing for 30 seconds. Avoid entraining air by mixing at too high speed or by over

Product Size	Usage	Approx., clean cold water required per size
3.5kg	Wall areas	0.875 litres
10kg	Wall areas	2.5 litres

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

Ready for immediate use. Pot life at 20°C: approx. 60 minutes.

NOTE:

Pot life/setting time will vary slightly with temperature: higher temperatures = shorter; lower temperature=longer.

Do NOT add more water to mixed grout as this would reduce final strength.

## 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. Work in small areas with a BAL GROUT FLOAT or squeegee. Completely fill tile joint with mixed grout and compact well, removing excess grout from tile surface as work proceeds.
3. Allow approx. 15minutes for grout to dry (at 20°C) or when the surface of the grout is dry enough to the touch (NOT fully set/Cured).
4. Using a dampened sponge or sponge board, clean surface diagonally to grout lines. Rinse out sponge/sponge board frequently with clean water. NOTE: Do NOT allow water to entre un-grouted joints.
5. When grout has set sufficiently within joints, polish tile surface with dry clean cloth. NOTE: For maximum speed/easy, use a BAL WASH BOY.
6. Clean any remaining light haze from the surface next day, using water and a BAL EMULSIFYING PAD and gripper.
7. Wait minimum 24 hours before subjecting tiles to normal service conditions.

NOTE:

If completing a swimming pool, do NOT fill pool for at least 3 weeks after grouting (contact BAL TECHNICAL ADVISORY AND SPECIFICATION SERVICE for further advice).

If completing a shower, do NOT use shower for at least 2 weeks.

### CLEANING

Always use cleaning products suited to tile type. For best long-term antimicrobial protection, regular cleaning with BAL MICROSILD TILE CLEANER (with Microban® antimicrobial protection) is recommended.

**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](http://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. 10 year anti-fungal guarantee subject to regular cleaning.

*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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