

# micromax3 eco

## Antimicrobial wall & floor tile grout for joints 1mm to 30mm

### DESCRIPTION

Rapid-setting, rapid-hardening, highly flexible, water/frost-resistant cementitious tile grout with built-in Microban® antimicrobial protection for walls and floors.

#### Use for

- Grouting porcelain, glazed and fully vitrified, glass and ceramic mosaics, marble and natural stone in dry and wet interior and exterior environments. Follow guidelines to BS Standards (minimum 2mm joints for walls and 3mm for floors, size can change depending on size of tile and environments), Contact BAL TECHNICAL ADVISORY AND SPECIFICATION SERVICE for more information.
- For Joint widths: **1mm to 30mm**
- Recommended for power showers, wet rooms, heated floors and timber floors.

#### 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 ABSOLUTE Grout.

- Can be used on single layer timber floors by adding 2 parts water to 1 part BAL ADMIX GT1 by volume or BAL ALL-IN-ONE PLUS pre-diluted 1:3 with water by volume.

### MIX/USAGE DATA

Powder:Water Ratio (weight)	Pot Life at 20°C	Cure Time at 20°C **	Specific Gravity
5:1	Up to 30 mins	2-3 hours	1.5/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 ^^
200x200x6mm	2mm	6.05m²/kg
300x300x9mm	3mm	4.03m²/kg
600x600x9mm	3mm	8.01m²/kg

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

### TEMPERATURE RESISTANCE\*\*\*

-15°C to 70°C

\*\*\* Cured grout.

### PRODUCT INFORMATION

**Composition:** Rapid-setting highly polymer-modified cement-based powder with built-in Microban®

#### Key Features:

- Sets in 2-3 hours: enables faster completion
- Efflorescence-free formulation minimises risk of patchy discolouration. Water/frost-resistant. Built-in admixture for increased flexibility and enhanced durability. Ensures clean, even finish for grout joints.
- Low dust
- 25%+ recycled content
- Emicode EC1 Plus
- Set in:** 2-3 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: 2-Octyl-2H-isothiazol-3-one.

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

**Pack sizes:** 2.5kg, 5kg, 10kg (Note: certain sizes may not be available for all colours)

**Colours:** For the latest colours available, refer to the product page on [www.bal-adhesives.com](http://www.bal-adhesives.com)

For a copy of the Grout Colour Selector, please call BAL on 01782 591100

For large projects, bespoke colours are available upon request.

## 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 are clear from excess adhesive, protected from contamination and are clean, dry and free from loose debris.
3. The amount of clean cold water used with the cement-based grout is consistent from mix to mix when grouting 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. The colour consistency is checked when using the same grout 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. 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).

If grouting shower installation, BAL MICROMAX3 ECO is water-resistant but NOT impervious to water and not a substitute for a waterproof tanking system.

Recommendations:

- Provide waterproof tanking protection for tiling background substrates, particularly plaster or plasterboard (e.g. by using BAL TANK-IT or BAL WATERPROOF 1C).

Ensure tiles are fixed with a solid bed with a water-resistant adhesive

## APPLICATION AREAS

Leisure Centres	✓
Bathrooms	✓
Changing Rooms	✓
Restaurants/Food Consumption Areas (1)	✓
Domestic Kitchens	✓
Shopping Malls	✓

## USAGE & SERVICE CONDITIONS

Walls	✓	Floor	✓
Interior	✓	Exterior (5)	✓
Dry	✓	Wet (3)	✓
Worktops (1)	✗	Showers (a)(1)(3)	✓
Swimming Pools (b)(2)(5)	✓	Limited Movement / Vibration (5)	✓

(1) Tiles must be grouted using BAL ABSOLUTE GROUT for Food preparation/storage areas, power showers with body jets/Spas/Jacuzzis/Chemical Plants.

(2) Tiles must be grouted using BAL ABSOLUTE GROUT for wave pools.

(3) In wet conditions waterproof background with BAL TANK-IT or BAL WATERPROOF 1C.

(4) Modify grout with BAL ADMIX GT1, Pre-diluted 1:2 with water by volume or BAL ALL-IN-ONE PLUS Pre-diluted 1:3 with water by volume.

(5) Contact BAL TECHNICAL ADVISORY AND SPECIFICATION SERVICE for further advice.

### NOTE:

(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 - BS 5385:Part 4

## TILE TYPES

Glazed Ceramic	✓	Mosaic – Ceramic	✓
Unglazed Ceramic	✓	Mosaic – Glass	✓
Porcelain	✓	Mosaic – Porcelain	✓
Natural Stone – Translucent	✓	Mosaic – Stone	✓
Natural Stone – Non- Translucent	✓	Resin agglomerate Stone (4)(5)	✓

NOTE: When grouting soft glazed tiles or tiles with a metal decor or lustre, care should be taken to ensure they are not damaged/scratched. Porous stone should be pre-sealed. If there is any doubt, a test area should first be grouted in an inconspicuous area.

## BAL UNCOUPLING/ANTI FRACTURE SYSTEMS

BAL RAPID-MAT	✓
BAL FLEXBONE VArIed	✓
BAL FLEXBONE 2Easy	✓
BAL SINGLE PART FASTFLEX	✓

Contact BAL TECHNICAL ADVISORY AND SPECIFICATION SERVICE for further advice.

## MIXING

Use a BAL MIXING BUCKET or other suitable bucket.

1. Slowly add approximately 5 parts powder to 1 part clean cold water by weight. (see table) Never add more water than recommended as this may lead to colour inconsistencies in the finished grout.
2. Mix until lump-free mortar achieved.
3. Allow mixed grout to stand for 2-3 minutes before re-mixing for 30 seconds. No further water should be added after original mixing. Avoid entraining air by mixing at too high speed.

Product Size	Usage	Approx., clean cold water required per size
2.5kg	Wall and floor areas	0.512 litres
5kg	Wall and floor areas	1.025 litres
10kg	Wall and floor areas	2.050 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. 30 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 a small trial area. If discolouration occurs or difficulties are encountered with cleaning off (surplus grout), apply BAL PROTECTIVE SEALER and repeat the trial.
2. Work in small areas with a 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 the grout to dry (at 20°C) or when the surface of the grout joints is dry enough to be touched (NOT fully set/Cured).
4. Using a dampened sponge or sponge board, clean the surface diagonally to grout lines. Use as little water as possible to wash off the grout but rinse out sponge/sponge board frequently with clean water.  
*NOTE: Do NOT allow water to enter un-grouted joints.*
5. When the grout has set sufficiently within joints, polish the tile surface with dry clean cloth.
6. Clean any remaining light haze from the surface next day, using water and a white emulsifying pad and gripper.
7. Wait a minimum 3 hours before subjecting tiles to normal service conditions.

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

## CLEANING

*Always use cleaning products suited to the tile type. For best long-term protection, regularly clean using a general alkaline cleaner such as BAL MICROSHIELD TILE CLEANER (with Microban® antimicrobial protection).*

## 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 or Email: [info@building-adhesives.com](mailto:info@building-adhesives.com)

### 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

24 months under normal dry conditions. 12 months for 10Kg bags. 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:*

### BUILDING ADHESIVES LTD

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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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