

green screed

Fast-track standard-setting tile adhesive for floors

DESCRIPTION

Fast-track, standard-setting, highly polymer-modified, water/frost-resistant cementitious tile adhesive for new cement and concrete floors

Use for

- Fixing ceramics, porcelain and vitrified tiles, mosaics, certain natural stones and terrazzo, rigid form insulating materials and brick slips in dry or wet interior and exterior environments.
NOTE: Certain types of natural stone (i.e. limestone, marble, travertine and some granite) may be susceptible to water staining. In this case, use of a BAL rapid-setting white adhesive is recommended i.e. BAL RAPIDSET FLEXIBLE FIBRE WHITE is recommended after the recommended drying time of the substrate.
- Recommended for swimming pools/shower, and use on recently laid screed/concrete and low porosity substrates.

Restrictions: NOT suitable for

Metal, wooden surfaces, existing glazed/unglazed tiles, Marble, limestone, travertine, some granite.

PRODUCT INFORMATION

Composition: Highly polymer-modified cement-based and rubber powder.

Colours: Grey.

Type/Classification: Exceeds BS EN 12004 C1S1 - Cementitious (Rubber/cement based), Normal Characteristics and Deformable

Pack sizes: 15kg

Key Features:

- Allows fast-track installations at 20°C
 - On new concrete after 7 days
 - On new cement:sand screed after 24 hours
- Enhanced adhesive to low porosity substrates.
- Flexible.
- Water/frost-resistant.

Grout after: 24 hours (at 20°C)

USAGE & SERVICE CONDITIONS

Walls	✗	Floor	✓
Interior	✓	Exterior	✓
Dry	✓	Wet	✓
Worktops (1)	✗	Showers	✓
Swimming Pools (a)	✓	Fully Cured Heated Screeds (3)	✓
Hydrotherapy Pools (a) (1)	✓	Limited Movement/Vibration	✓

BACKGROUNDS / BASES

Cement:Sand Screeds (2)	✓
Concrete (2)	✓

USAGE: Bed Thickness / Time at 20°C

Bed Thickness [^]	Open Time*	Pot Life	Setting Time*
2-6mm	20 mins	5 hours	24 hours

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

[^]Up to 12mm in areas of limited extent. Use minimum 3mm for floor tiling.

COVERAGE

Area	Trowel	Coverage [^]
Exterior / Floors	THICK BED SOLID BED	0.23m ² /kg

[^] May vary dependent on nature and flatness of surface, and on trowel used.

TEMPERATURE RESISTANCE**

-30°C to 60°C (up to 100°C for limited exposure)

** Cured adhesive.

- Tiles must be grouted using BAL EASYPOXY AG.
- Provided the surface is sufficiently flat.
- Check suitability for the intended purpose with the manufacture.

Note:

- Do not fill pool for at least 3 weeks after completion of grouting
- BS 5385:Part 4 BAL GREEN SCREED is sulphate resistant.

SURFACE PREPARATION

General

Ensure surfaces to be tiled are flat, clean, dry, sound and free from contamination.

Surface regularity:

Surface Regularity is defined as the deviation in height of the surface of a flooring layer over short distances in a local area. In simpler terms, it is the 'flatness' or 'measure of unevenness' of the screeded surface.

Class	MAXIMUM PERMISSABLE DEVIATION FROM a 2M STRAIGHT EDGE (MM)	APPLICATION
SR1	3mm	Recommended for direct fixing of tiles and slabs with a tile adhesive
SR2	5mm	For tiles & slabs bedded in a cement: sand mortar or a suitable tile adhesive (see the manufacturer's recommendations)
SR3	10mm	For tiles & slabs bedded in a cement:sand semi-dry mix.

SUITABLE SURFACES include:

Cement:sand screeds

Screed must be laid to required thickness to BS 8204.

Mix ratio: cement and fine aggregate sand (BS EN 13139)

1:3 up to 1:4.5 by weight.

Before tiling, ensure that the substrate is flat (SR1) free from dirt and other loose materials.

DO NOT prime surface to be tiled.

Allow to dry for at least 24 hours.

Concrete

Allow in-situ and power-floated concrete to dry for min. 7 days.

Remove laitance mechanically (e.g. grit blasting).

Ensure all loose particles cleared from surface.

Before tiling, ensure that the substrate is flat (SR1).

DO NOT prime surface to be tiled.

MIXING

Use a BAL MIXING BUCKET or other suitable bucket.

1. Add approximately 3-3.5 parts powder to 1 part clean cold water by weight. (see table below)

2. Mix until lump-free mortar achieved.

3. Allow mixed adhesive to stand for 2 minutes before re-mixing for 30 seconds.

Product Size	Usage	Approx., clean cold water required per size
15kg Grey	Floor Tiling	4.5 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. 5 hours.

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

APPLICATION/USAGE

Do NOT use in temperature 5°C or damp conditions.

Trowel recommendation

Area	Trowel
External and Floors	BAL THICK BED SOLID BED

NOTE: ensure you achieve the correct contact of adhesive to both the background and tile in line with BS 5385, Parts 1-5.

Fixing procedure

1. Apply adhesive to floor surface and comb to required bed thickness ensuring the ribs of adhesive all run in one direction. The adhesive may be applied in bed thickness of 2- 6mm or up to 12mm in limited areas.

If fixing large/heavily-patterned tiles, additional adhesive to tile reverse.

2. For *mosaics*: using a rubber tile float, press mosaics into adhesive and beat into required position.

For *tiles*: press tile firmly into the ribs of adhesive and into position, with slight twisting/sliding action to ensure optimum adhesive contact.

3. Fix mosaic/tiles before adhesive forms skin (typically over 20 minutes at 20°C, depending on surface porosity/atmospheric conditions). If skin has formed, remove adhesive and apply fresh layer). Discard any adhesive that has begun to set. Do not add further water.

4. Occasionally lift a mosaic/tile to check adhesive contact area. When solid-bed fixing, leave no voids behind tiles.

5. Leave adequate joints between individual tiles. Install movement joints to BS 5385, Parts 1-5.

6. Clean off surplus adhesive from tile face and between tile joints before the adhesive has dried.

Grouting

1. Wait minimum 16 hours (at 20°C) after tile fixing. Select a BAL cementitious or Epoxy grout such as BAL MICROMAX2 GROUT or BAL EASYPOXY AG GROUT.

If using paper-faced mosaics: Pre-grout sheet and remove surplus. Place in position and tap down to achieve full contact with adhesive. Ensure joints between sheets match joints between mosaic tesserae (i.e. staggered). Wet paper and carefully remove before adhesive fully hardens. Clean off surplus adhesive and grout from mosaic face. Finish grouting.

2. Fill movement joints with suitable sealant i.e. BAL MICROMAX SILICONE SEALANT. *However*, do NOT use on sensitive surfaces that could react to acetic acids released during cure.

For intermediate movement joints, a more durable hard wearing material may be needed e.g. an Epoxy polysulphide sealant or a suitable pre-formed movement joint strip.

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).

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 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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