

all star

Large Format Porcelain Wall Tile Adhesive

DESCRIPTION

High strength, highly flexible, non-slip, water-resistant large format porcelain ready-to-use tile adhesive for walls.

Use for

- Fixing mosaics, ceramics, and porcelain WALL tiles (up to 600mm x 600mm, or equivalent surface area of tile up to 0.36m² i.e. 900mm x 300mm) and some natural stone in dry or wet interior environments.
- For domestic and commercial internal wall areas including showers/kitchens/bathrooms/wet rooms.
- Suitable for heavy duty wet areas including communal showers and commercial kitchens.
- Suitable for use on backgrounds subject to limited movement/vibration.

Restrictions: NOT suitable for

- Metal, Exterior use or total immersion areas (e.g. swimming pools), plywood walls, Large format thin panels (3m x 1m in size). Not suitable for floors or fixing porcelain tiles to waterproof coatings/backgrounds.

USAGE: Bed Thickness / Time at 20°C

Bed Thickness [^]	Open Time ^{**}	Pot Life	Setting Time ^{**}
Up to 3mm (max)	30 mins	2 hours	16 - 24 hours

*** Open time/setting time will be extended in colder temperatures,*

NOTE: Minimum drying time for ceramic tiles 16 hours and 24 hours for porcelain tiles. When tiling onto primed or waterproof/glazed tiles surfaces with ceramic tiles, drying time will be extended from 16 hours to 24 hours.

TEMPERATURE RESISTANCE^{***}

-30°C to 100°C

**** Cured adhesive.*

PRODUCT INFORMATION

Composition: Acrylic based organic dispersion with BAL Fibre Strand Technology (FST) and powder admix.

Colours: White.

Type/Classification: Exceeds BS EN 12004 D2TE – Dispersion (ready-to-use), Improved / Additional Characteristics, Reduced Slip, Extended Open-Time.

Pack sizes: 10L (Contains 9.2L Paste with 1.22KG Powder Admix).

Key Features:

- Suitable for porcelain tiles.
- Suitable for large format tiles up to 600mm x 600mm (or equivalent surface area), including porcelain.
- Improved super white ready-to-use/easy to apply
- Highly water-resistant
- Highly flexible
- Excellent non-slip (no battens required)
- High bond strength
- Lightweight rheology for improved consistency and smoother formulation
- Higher grab, improved strength and higher flexibility to improve adhesive performance.

Grout After: 16 -24 hours (at 20°C)

COVERAGE

Area	Trowel	Coverage ^{^^}
Dry Wall	6mm Notched	0.66 m ² per litre
Wet Wall	6mm Notched (solid bed)	0.5 m ² per litre

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

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 over short distances in a local area. In simpler terms, it is the 'flatness' or 'measure of unevenness' of the wall surface.

Class	MAXIMUM PERMISSABLE DEVIATION - 2M STRAIGHT EDGE (MM)	APPLICATION
SR1	3mm	Recommended for direct fixing of tiles and slabs with a tile adhesive

N.B. When using larger format tiles, it is essential that the substrate is as level as possible, ideally better than SR1, as this will avoid excessive bedding out of adhesive.

In wet areas: waterproof background with BAL TANK-IT, BAL WATERPROOFING KIT FOR SHOWERS or BAL WATERPROOF PLUS.

SUITABLE SURFACES include:

Plaster (finish coat only)

Must be at least 4 weeks old before tiling. Ensure that the plaster is free from dust, laitance and friable material. If plaster is shiny or polished, brush thoroughly with a stiff bristled brush.

Prime with 1 coats of BAL PRIME APD (undiluted). Allow the primer to dry.

Weight restrictions for tiling onto plaster i.e. a maximum weight of 20kg/m². Check suitability for 600mm x 600mm porcelain tiles with the manufacturer/supplier to ensure the tile is suitable for use on plaster depending on the weight of the tile.

Plasterboard (If required)

Ensure boards are dry, securely fixed and rigid and suitable thickness used.

NOTE if the plasterboard is dot and dabbed at 300mm centres and around the perimeter, leave to dry before fixing tiles.

Weight restrictions for tiling onto plasterboard i.e. a maximum weight of 32kg/m². Consider the weight of the tile to be used ensuring its suitability for the tolerance of the background. Do NOT Prime when fixing large format (600 x 600mm) porcelain tiles.

BACKGROUNDS

Clay Brick / Medium Density Concrete (2)(5)	✓	Plaster (2)(3)	✓
Rendering (2)	✓	Plasterboard (4)	✓
Tile Backer/Fibre Cement Boards (2)(3)(4)(6)	✓	Unglazed Ceramic Tiles / Hard Natural Stone (2)	✓
Glazed Tiles (6) (7)	✓	Lightweight Blockwork (5)	✓
		Waterproof Backgrounds (6)(7)	

USAGE & SERVICE CONDITIONS

Walls	✓	Floor	✗
Interior	✓	External	✗
Dry	✓	Wet Areas (a)(3)(6)(7)	✓
Worktops (1)(6)	✓	Showers (a)(3)(6)(7)	✓
Swimming Pools	✗	Limited Movement/Vibration	✓

(1) Tiles must be grouted using BAL EASYPOXY AG.

(2) Provided the surface is sufficiently flat.

(3) In wet conditions tank out with BAL WATERPROOF PLUS or BAL WATERPROOFING KIT FOR SHOWERS. Only porous body tiles may be fixed to waterproof coatings.

(4) Check suitability for the intended purpose with the manufacturer or check BAL TECHNICAL DATA SHEETS on any BAL Products.

(5) Apply a cement: sand render e.g. BAL QUICKSET RENDER or a suitable tile backing board prior to tiling.

(6) Drying times will be extended, i.e. leave adhesive to dry for a minimum of 24 hours

(7) Not suitable for larger porcelain tiles on impervious surfaces. Can be used to fix porous body tiles to glazed tiles.

Note:

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

TILE TYPES

Glazed Ceramic	✓	Mosaic – Ceramic	✓
Unglazed Ceramic	✓	Mosaic – Glass	✓
Porcelain (7) ✓	✓	Mosaic – Porcelain	✓
Natural Stone – Translucent	✓	Mosaic – Stone	✓
Natural Stone – Non- Translucent	✓	Resin agglomerate Stone	✗

NOTE: When fixing with large format porcelain tiles (600mm maximum size). The surface must NOT be applied onto impervious surfaces (glazed tiles and waterproof materials).

Lightweight blockwork/walling

Allow new blockwork/brickwork to dry for minimum of 6 weeks before applying a render (such as BAL QUICKSET RENDER)/plastering or applying a suitable tile backer board.

Dense concrete/blockwork walling

Allow new concrete or concrete blockwork to dry for minimum 6 weeks before applying a render such as BAL QUICKSET RENDER or plastering.

Concrete; rendering

Before tiling, ensure that the substrate is flat (SR1). Remove any efflorescence, laitance, dirt, polished concrete and other loose materials or barriers to adhesion. Remove using suitable mechanical methods (see Technical data Sheet for BAL BOND SBR or BAL PRIME APD for priming information). Allow the following minimum drying times:

- Concrete/concrete block walls/clay brickwork: 6 weeks
- Cement:sand rendering: 2 weeks

BAL QUICKSET CEMENT:sand rendering

- Rendering (bonded): 4 hours**

BAL BOND SBR SLURRY

**1-part sand to 1-part BAL QUICKSET CEMENT by weight, mixed with appropriate amount of BAL BOND SBR pre-diluted 1:1 with clean cold water to achieve desired consistency.

BAL QUICKSET RENDER: 2 hours

Fibre reinforced cement boards and lightweight tile backer boards

Install boards to BS 5385 – i.e. moisture-resistant boards and screwed to seasoned timber or suitable proprietary framework at maximum 300mm centres vertically and horizontally or as per the board manufacturer's recommendations.

Ensure no fixings protrude.

No priming needed.

IMPORTANT NOTE: Obtain manufacturer's confirmation that boards are suitable for the tiling application and for relevant fixing instructions.

Existing glazed/unglazed ceramic tiles, quarry tiles, terrazzo and natural stone

For walls ensure existing tiles/stone are securely bonded to a stable background that is sufficiently strong enough to support the additional weight of the new tiling.

Any areas that are loose or hollow-sounding, remove and make good with BAL QUICKSET RENDER or a 1:3 cement:sand mortar over a slurry bonding coat (1 part sand to 1 part cement by weight, mixed with appropriate amount of BAL BOND SBR pre-diluted 1:1 by volume with clean cold water to achieve desired consistency).

MIXING

Using the bucket provided.

1. Create a hole within the top surface of the ready-mixed adhesive.
2. Empty the powder admix into the hole created within the adhesive.
3. Stir in the power for 10 -15 seconds.
4. Using a electric or portable drill mixed, blend the powder and ready mixed together (*slow speed i.e. under 300rpm*).
5. Mix until a lump-free consistency is achieved.

NOTE:

Ready for immediate use. Pot life at 20°C: approx. 2 hours. Pot life/setting time will vary slightly with temperature: higher temperatures = shorter; lower temperatures = longer.

APPLICATION/USAGE

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

NOTE: When fixing onto a non- porous background (e.g. tiles), drying times will be extended.

For larger size tiles over 600mm x 600 in size use a cementitious adhesive from the BAL range. Contact BAL TECHNICAL ADVISORY AND SPECIFICATION SERVICE.

Trowel recommendations

Area	Trowel
Internal Wall Area (up to 600x600mm tiles) always apply a skim of adhesive to the back of the tiles when large format.	Max. 6mm Notched Trowel
Mosaics (up to 100x100mm tiles)	Min. 4mm Notched Trowel

NOTE: ensure you achieve the correct coverage of adhesive to both the background and tile, in-line with BS 5385, Parts 1-5. Tiles with a surface area of 0.1m² or more should be solidly bedded.

NOTE: Follow guidelines to BS Standards (minimum 2mm joints for walls, size can change depending on size of tile and environments), Contact BAL TECHNICAL ADVISORY AND SPECIFICATION SERVICE for more information.

Fixing procedure

1. Apply adhesive to wall surface and comb to required bed thickness ensuring the ribs of adhesive all run in one direction. If fixing large ceramics/heavily patterned tiles, apply additional adhesive to tile reverse (DO NOT exceed 3mm maximum bed thickness).

2. For mosaics: using a rubber tile float, press mosaics into adhesive and beat into required position, ensure joints between sheets match joints between mosaic tesserae (i.e. staggered).

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

Fixing procedure (cont.)

3. Fix mosaics/tiles before adhesive forms skin (typically up to 30 minutes at 20°C, depending on surface porosity /atmospheric conditions). If a skin has formed, remove the adhesive and apply a fresh layer.
4. Occasionally lift a mosaic/tile to check adhesive contact are 80% coverage for dry areas; min. 100% coverage for wet areas (i.e. When solid bed fixing, leave no voids behind tiles).
5. Leave adequate joints between individual tiles.
6. Install movement joints to BS 5385, Parts 1-5.
7. Clean off surplus adhesive from tile face and between tile joints before the adhesive has dried.

Grouting

1. Waiting minimum 16-24 hours (at 20°C) after tile fixing. Select a BAL cementitious or epoxy grout such as BAL MICROMAX2 GROUT or BAL EASYPOXY AG GROUT.
NOTE: If tiling on an impervious background (e.g. existing tiles or primed areas), delay grouting for min. 3 days, to allow for extended setting time.
2. Fill movement joint and seal around bath/shower trays with suitable sealant i.e. BAL MICROMAX SILICONE SEALANT. However, do NOT use on sensitive surface that could react to acetic acids released during cure.

If completing a shower, do NOT use shower for at least 2 weeks (as required by BS 5385: Part 4 2015, clause 7.2.1).

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

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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.

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