

all-in-one *plus*

Bonding Agent, Primer and Admixture

DESCRIPTION

Multi-purpose all-in-one polymer liquid to be used as a bonding aid, primer, slurry bonding coat and adhesive & grout admixture.

Use for

A water-based dispersion polymer liquid with a wide variety of uses in the construction industry.

Bonding aid/admixture for:

- **Priming/sealing** before tiling on
 - Timber
 - Plaster
 - Screeds (Cement:Sand and Anhydrite)
 - Rendering
 - Vinyl tiles
- **Slurry coat**
 - Cement or plaster mix in dry and wet interior and exterior environments.
- **Adhesive & grout admixture**
Improve strength and flexibility of BAL cementitious products. (Refer to BAL TECHNICAL DATA SHEETS for details)

Use in:

- Most INTERIOR and EXTERIOR locations
- DRY and WET environments
- Suitable for use in areas of total immersion, i.e. swimming pools, when used as an admix to cement adhesives or grouts.

Restrictions Priming: NOT suitable for

Painted surfaces, existing non-porous surfaces (existing tiles), Epoxy coatings, waterproofing products, use over matting systems including BAL RAPID-MAT, BAL FLEXBONE 2EASY and BAL FLEXBONE VARied and some manufactured board systems (check with manufacturers of mattings and boards).

PRODUCT INFORMATION

Composition: Water-based dispersion polymer liquid

Colours: White

Pack sizes: 1 litre 2.5 litres, 5 litres

Key Features:

Only one liquid required to:

- Prepare substrates prior to tiling.
- Increase strength and protect substrates.
- Enhance strength and flexibility of suitable BAL adhesives & grouts.
- Improved water resistance.
- Reduced surface dusting.

Drying time: when used as a primer: 15-30 mins. (at 20°C)

USAGE & SERVICE CONDITIONS

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

(1) In wet conditions tank out

(2) May be used in conjunction with BAL RAPID-MAT.

Not recommended for use on paint, metal or existing glazed tiles as a priming coat.

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

SURFACE PREPARATION

Primer/Sealer

BAL ALL-IN-ONE PLUS can be used on the following areas as a primer or sealer before tiling:

- Plaster

Dilute 1-part BAL ALL-IN-ONE PLUS with:

For ready mixed dispersions, 4 parts clean cold water - Apply one coat. Allow coat of primer to dry.

For BAL cement-based powders, 2 parts clean cold water - Apply two coats (second coat applied at 90° to the first). Allow each coat of primer to dry.

- Screeds/renders

Dilute 1-part BAL ALL-IN-ONE PLUS with 4 parts clean cold water.

Apply one coat. Allow coat of primer to dry.

- Vinyl

Brush BAL ALL-IN-ONE PLUS undiluted over whole of surface to be tiled. Fix tiles within 24 hours of application of BAL ALL-IN-ONE PLUS.

- Anhydrite/calcium sulfate and hemi-hydrate screed

Apply two coat of BAL ALL-IN-ONE PLUS (second coat applied at 90° to the first). Allow each coat of primer to dry.

Dilute first coat 1-part BAL ALL-IN-ONE PLUS with 4 parts clean cold water.

Dilute second coat 1-part BAL ALL-IN-ONE PLUS with 2 parts clean cold water.

- Overlaid timber floors

Seal timber surface on the underside and edges only with undiluted BAL ALL-IN-ONE PLUS.

- Tongue and groove floorboards

Dilute 1-part BAL ALL-IN-ONE PLUS with 2 parts clean water. Apply two coat of BAL ALL-IN-ONE PLUS (second coat applied at 90° to the first). Allow each coat of primer to dry.

COVERAGE

Usage (primer)	Typical Coverage ^	1 litre Bottle	2.5 litre Bottle	5 litre Bottle
Undiluted	12m ² /litre	12m ²	30m ²	60m ²
Diluted 1:2 with water	36m ² /litre	36m ²	90m ²	180m ²
Diluted 1:4 with water	60m ² /litre	60m ²	150m ²	300m ²

^ May vary dependent on the porosity of surface, and on application

APPLICATION/USAGE – PRIMER/SEALER

Usage procedure

IMPORTANT NOTE: Do NOT use in temperatures below 5°C.

1. Ensure surfaces are free from dirt, grease and other loose materials. Brush down highly polished surfaces with a stiff bristle brush before priming.

2. Apply 2 coats of BAL ALL-IN-ONE PLUS using a clean brush from a container, diluted or undiluted as appropriate (See USAGE above). Allow to dry between coats.

NOTE: If using on floor, do NOT allow to form puddles.

3. Ensure even coverage.

4. Allow to dry thoroughly for 15-30 minutes before applying adhesive.

5. Clean product from tools using clean water.

BACKGROUNDS / BASES – PRIMING/SEALER

Brick/Concrete (3)(10)	✓
Rendering (3)(10)	✓
Lightweight Blockwork – must be rendered (3)	✓
Cement:Sand Screed (3) (8)(10)	✓
Plaster (2)(3)(4)(10)	✓
Plasterboard (2)(4)	✓
Tile Backer/Fibre Cement Boards (2)(3)(4) (6)	✓
Tongue and groove floorboards (2)(7)	✓
Overlaid Timber Floors – 15mm min. (4)(6)(9)	✓
Anhydrite/Calcium Sulfate Screeds (5)(8)	✓
Vinyl Tiles (1)	✓

(1) Primer – BAL ALL-IN-ONE PLUS undiluted

(2) Primer – Dilute 1-part BAL ALL-IN-ONE PLUS to 2 parts water by volume

(3) Primer – Dilute 1-part BAL ALL-IN-ONE PLUS to 4 parts water by volume

(4) In wet conditions tank out.

(5) Prime with BAL ALL-IN-ONE PLUS, first coat 1:4 with water, second coat diluted 1:2 with water 90° to the first.

(6) Check suitability for the intended purpose with the manufacturer.

(7) When used with BAL RAPID-MAT.

(8) May be used in conjunction with BAL RAPID-MAT.

(9) Seal back face and edges with undiluted BAL ALL-IN-ONE PLUS.

(10) Used as an admixture and slurry coat to obtain optimum benefits.

Not recommended for use on paint, metal or existing glazed tiles when priming.

MIXING

1. Shake container well before use.

2. Can be used undiluted/diluted 1:2, 1:3 and 1:4 by volume of BAL ALL-IN-ONE PLUS and clean water and thoroughly mix.

3. Apply BAL ALL-IN-ONE PLUS as a primer, bonding aid/slurry and admixture for BAL adhesives and grouts.

Bonding aid/admixture

BAL ALL-IN-ONE PLUS can be used in the following areas:

- **Plastering**, slurry coat:

Dilute 1-part BAL ALL-IN-ONE PLUS to 4 parts water and mix with 9 parts plaster.

Dampen surface before application and apply plaster before slurry dries.

- **Rendering/screeding/patching/repairing**, slurry coat:

Add 1-part sand to 1-part cement by weight and mix with the appropriate amount of BAL ALL-IN-ONE PLUS pre-diluted 1:1 with clean water to achieve desired consistency.

Dampen surface before application and apply render/screed before slurry dries.

Adhesive admixture

BAL ALL-IN-ONE PLUS can be used with certain BAL cementitious adhesives, (see BAL TECHNICAL DATA SHEET on preparation before tiling).

BAL Product	Size	Diluted Ratio	Volume BAL ALL-IN-ONE PLUS (litres) required ^
BAL CTF4	20kg	1:2	1.9
BAL FLEX FIBRE PLUS	20kg	1:3	1.35
BAL RAPID FLEX FIBRE PLUS	20kg	1:3	1.0 – 1.4
BAL PTB FIBRE PLUS	20kg	1:3	1.0
BAL RAPID XP PLUS	20kg	1:3	1.0 – 1.4

^ When used in conjunction with the appropriate BAL cement-based adhesives above.

APPLICATION/USAGE

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

Usage procedure

1. Shake container well before use.
2. Dilute BAL ALL-IN-ONE PLUS, at a ratio of 1:2 or 1:3 with clean cold water – and mix thoroughly.
3. Add the BAL cementitious adhesive to the correct quantity of diluted liquid. Mix thoroughly until desired consistency is achieved.

NOTE: Mortar consistency can be adjusted by slightly increasing or decreasing adhesive amounts in mix (see BAL TECHNICAL DATA SHEET on mixing).

4. Clean surplus adhesive from tools/tiles before it dries.
- NOTE: Setting time of adhesive that has been modified with BAL ALL-IN-ONE PLUS may be extended.

5. Shake container well before use.
6. Dilute BAL ALL-IN-ONE PLUS, at a ratio of 1:3 or 1:2 with clean cold water – and mix thoroughly.

NOTE: If grouting in more demanding situations (e.g. tiling to timber floors), ratio 1:3 with BAL MICROMAX3 GROUT.

7. Add the BAL cementitious grout to the correct quantity of diluted liquid. Mix thoroughly until slump-free mortar achieved.

8. Clean surplus grout from tools/tiles before it dries.

NOTE: Working time/setting time of grout that has been modified with BAL ALL-IN-ONE PLUS may be extended.

When set, the grout colour may appear slightly darker than when unmodified. To ensure uniform colour, use same mix proportions throughout installation.

Grout admixture

BAL ALL-IN-ONE PLUS can be used with certain BAL cementitious grout, (see BAL TECHNICAL DATA SHEET on preparation/fixing before grouting). NOTE: Mix and work in smaller areas.

BAL Product	Size	Diluted Ratio	Volume (litres) required ^
BAL GROUT	20kg	1:3	1.6
	20kg	1:2	2.2
	10kg	1:3	0.8
	10kg	1:2	1.1
	3.5kg	1:3	0.28
	3.5kg	1:2	0.38
	1.5kg	1:3	0.12
BAL MICROMAX3 GROUT	10kg	1:3	0.5
	5kg	1:3	0.25
	2.5kg	1:3	0.12

^ When used in conjunction with the appropriate BAL cement-based grouts above.

**HEALTH & SAFETY INFORMATION / GOOD PRACTICE
ADVICE**

For 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.

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. While products may be suitable for installations internally or externally, products when used externally are exempt from cover under the BAL 25 Year Guarantee. Terms and conditions apply. Full details are available for your review at www.bal-adhesives.com.

CONDITIONS OF SALE

Sold subject to the Company's Conditions of Sale. Available on request.

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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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