

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, as part of a slurry bonding coat and as an admixture for many BAL adhesives & grouts.

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**
 - For 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-based 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). When used as a primer in swimming pools.

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.

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)(3)	✓	Heated Screeds (2)	✓
Hydrotherapy Pools (b)(3)	✓	Limited Movement / Vibration (2)	✓

(1) In wet conditions tank out with BAL WATERPROOFING KIT FOR SHOWERS or BAL WATERPROOF PLUS.

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

(3) Used as an admix or slurry coat only.

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 2015

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

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.

For BAL ALL STAR, 2 parts clean cold water – Apply one coat and allow to dry before tiling.

- 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 coats 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	30m ²	60m ²
Diluted 1:2 with water	36m ²	90m ²	180m ²
Diluted 1:4 with water	60m ²	150m ²	300m ²

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

BACKGROUNDS / BASES – PRIMING/SEALER

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 (3)(4) (6)	✓
Tongue and groove floorboards (2)(7)	✓
Overlaid Timber Floors – 15mm min. (2)(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 with BAL WATERPROOFING KIT FOR SHOWERS or BAL WATERPROOF PLUS.

(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 as a primer before installing BAL RAPID-MAT or admix into the grout.

(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 adhesive admixture to obtain optimum benefits.

(11) Used as a slurry coat to obtain optimum benefits.

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

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 bonding aid, primer, as part of a slurry bonding coat and as an admixture for many BAL adhesives & grouts.

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 plaster surfaces with a stiff bristle brush before priming.
2. Apply 1-2 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 at 20C) before applying adhesive.
5. Clean product from tools using clean water.

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	1.36
BAL RAPID FLEX FIBRE PLUS	20kg	1:3	1.0 – 1.4
BAL PTB FIBRE PLUS	20kg	1:3	1.0

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

APPLICATION/USAGE – ADHESIVE ADMIXTURE

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 the required ratio 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.

Grout admixture

BAL ALL-IN-ONE PLUS can be used with certain BAL cementitious grouts, (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
	1.5kg	1:2	0.16
BAL MICROMAX2 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.

APPLICATION/USAGE – GROUT ADMIXTURE

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

Usage procedure

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 MICROMAX2 GROUTS).
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.

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

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.

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.

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.

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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USAGE GUIDE FOR PRIMING

Application Guide	Product	Mix Ratio Required (Liquid:Water)	Litres of Liquid (Bottle size)	Litres of water needed for volume of Liquid	Total Mixed Liquid (gauged liquid and water)	Coverage available from Total Mixed Liquid ^
When using undiluted on vinyl tiles and sealing edges and the underside of timber boards	All-In-One Plus	1:0 (Neat)	1 litre	0 litres	1 litre	12 Metres
			2.5 litres	0 litres	2.5 litres	30 Meters
			5 litres	0 litres	5 litres	60 Meters
	BAL Bond	1:0 (Neat)	1 litre	0 litres	1 litre	12 Metres
			5 litres	0 litres	5 litres	60 Meters
When using on plaster or using with a cementitious adhesive (including BAL ALL STAR)	All-In-One Plus	1:2	1 litre	2 litres	3 litres	36 Metres
			2.5 litres	5 litres	7.5 litres	90 Metres
			5 litres	10 litres	15 litres	180 Metres
	BAL Primer	1:0 (Neat)	1 litre	0 litres	1 litre	7.5 Metres
			2.5 litres	0 litres	2.5 litres	18.8 Metres
When using a ready-mixed adhesive or applying to porous background	All-In-One Plus	1:4	1 litre	4 litres	5 litres	60 Metres
			2.5 litres	10 litres	12.5 litres	150 Metres
			5 litres	20 litres	25 litres	300 Metres
	BAL Primer	1:1	1 litre	1 litre	2 litre	15 Metres
			2.5 litres	2.5 litres	5 litres	37.6 Metres

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

USAGE GUIDE FOR SLURRY COAT

Application Guide	Product	Mix Ratio Required (Liquid:Water)	Litres of Liquid (Bottle size)	Litres of water needed for volume of Liquid	Total Mixed Liquid (gauged liquid and water)	Coverage available from Total Mixed Liquid
When using with cement renders and screeds has a slurry coat for bonding and patch repairs	All-In-One Plus	1:1	1 litre	1 litres	2 litres	6 Metres
			2.5 litres	2.5 litres	5 litres	15 Metres
			5 litres	5 litres	10 litres	30 Metres
	BAL Bond SBR	1:1	1 litre	1 litres	2 litres	6 Metres
			5 litres	5 litres	10 litres	30 Metres
When using with plaster has a slurry coat for bonding and patch repairs	All-In-One Plus	1:4	1 litre	4 litres	5 litres	15 Metres
			2.5 litres	10 litres	12.5 litres	37.5 Metres
			5 litres	20 litres	25 litres	75 Metres
	BAL Bond SBR	1:4	1 litre	4 litre	5 litre	15 Metres
			5 litres	20 litres	25 litres	75 Metres

USAGE GUIDE FOR ADHESIVE ADMIXTURE

Product	When used with Adhesive:	Mix Ratio Required (Admix:Water)	Litres of Admix required per bag	Litres of water required per bag	Total Mixed Liquid (gauged admix and water)
All-In-One Plus	ctf4 (20kg)	1:2	1.9 litres	3.7 litres	5.6 litres
	supercover rapidset (15kg)	1:2	2.2 litres	4.3 litres	6.5 litres
	flex fibre plus (20kg)	1:3	1.4 litres	4 litres	5.4 litres
	rapid-flex fibre plus (20kg) - WALL	1:3	1.2 litres	3.5 litres	4.7 litres
	rapid-flex fibre plus (20kg) - FLOOR	1:3	1.4 litres	4.1 litres	5.5 litres
	ptb fibre plus (20kg)	1:3	1.0 litres	3.0 litres	4.0 litres
BAL Admix AD1	ctf4 (20kg)	1:1	2.8 litre	2.8 litres	5.6 litres
	supercover rapidset (15kg)	1:1	3.25 litres	3.25 litres	6.5 litres
	flex fibre plus (20kg)	1:3	1.4 litres	4 litres	5.4 litres
	rapid-flex fibre plus (20kg) - WALL	1:3	1.2 litres	3.5 litres	4.7 litres
	rapid-flex fibre plus (20kg) - FLOOR	1:3	1.4 litres	4.1 litres	5.5 litres
	ptb fibre plus (20kg)	1:3	1.0 litres	3.0 litres	4.0 litres

USAGE GUIDE FOR GROUT ADMIXTURE

Application	Product	When used with Grout	Mix Ratio Required (Admix:Water)	Litres of Admix required PER KG	Litres of water required PER KG	Total Mixed Liquid (gauged admix and water) PER KG
When using to provide flexibility and grouting porcelain tiles	All-In-One Plus	BAL Grout	1:3	0.08 litres / 80 ml	0.25 litres / 250 ml	0.33 litres / 330 ml
	BAL Admix GT1	BAL Grout	1:2	0.11 litres / 110 ml	0.22 litres / 220 ml	0.33 litres / 330 ml
When using to provide extra flexibility (systems such as single layer timber)	All-In-One Plus	BAL Grout	1:2	0.11 litres / 110 ml	0.22 litres / 220 ml	0.33 litres / 330 ml
		BAL Micromax2	1:3	0.05 litres / 50 ml	0.15 litres / 150 ml	0.2 litres / 200 ml
	BAL Admix GT1	BAL Grout	1:1	0.165 litres / 165 ml	0.165 litres / 165 ml	0.33 litres / 330 ml
		BAL Micromax2	1:2	0.7 litres / 70 ml	0.13 litres / 130 ml	0.2 litres / 200 ml