



Date Issued FEB 25

waterproof <u>l</u>C

DESCRIPTION

Ready to use coating to waterproof substrates

The complete fast drying one coat ready to use tanking system for all internal wet areas.

Use for

Providing complete waterproofing protection of substrates prior to fixing Wall and Floor tiles

Suitable for use in internal domestic and commercial situations.

EAD certified to ensure NHBC compliant shower and wetroom installations prior to tiling.

All corner/edges must be reinforced with BAL SCRIM TAPE which is required at:

- Where movement may occur such as around drainage channels, junctions between floor and wall, preventing water penetration through suspended floors.
- Recommended for showers/ wet rooms/ kitchens/ laundry/utility room, and around drainage/ upstands.

USAGE & SERVICE CONDITIONS

Walls	✓	Floor	✓
Interior	✓	Exterior	Х
Dry	✓	Wet Rooms	✓
Showers	✓	Internal	✓
		Domestic	
Internal	✓	Swimming	Х
Commercial		Pools	
Underfloor	✓	Limited	✓
Heating		Movement /	
Systems (1) (5)		Vibration (5)	

BACKGROUNDS / BASES

Concrete	✓
Rendering	✓
Cement:Sand Screed	✓
Plaster (2) (8)	✓
Plasterboard (8)	✓
Tile Backer Boards (2)	✓
(4)	
Glazed/Unglazed	✓
Ceramic Tiles / Hard	
Natural Stone (7)	
Timber Floors (5)	✓
Anhydrite Screeds (3)	✓
BAL BOARD (2) or (6)	✓

- (1) When used over a levelling compound or BAL RAPID-MAT uncoupling system.
- (2) Prime with one coat of BAL PRIMER 1C
- (3) May be used with BAL RAPID-MAT.
- (4) Check suitability for the intended purpose with the manufacturer.
- (5) When used with BAL RAPID-MAT or over boarded with tile backer board.
- (6) When applied on the reversive side (smooth decorating side). Priming not required.
- (7) Recommend 2 coats of coating not primed.
- (8) BS 5385 Part 4 states that in commercial wet rooms and domestic power showers,

Restrictions: NOT suitable for

External use, total immersion, barrier to prevent water ingress from background/base (e.g. DPM).

PRODUCT INFORMATION

Composition: Ready to use polymer system.

Colours: Light Grey. **Type:** Internal use only.

Pack sizes: 5L Key Features:

- Brush, roller or trowel applied.
- No mixing required and can be used again.
- Can be used without priming.
- Ability for one coat application.
- Tile after 2 hours.
- Crack bridging up to 3mm without tape or matting on the floor.
- Total waterproofing protection for internal locations.

USAGE: Bed Thickness / Time at 20°C

Bed Thickness*	Setting Time**
Minimum 0.8mm (walls) and	2 hours
1.6mm (floors)	

^{*} It is recommended to use two-coats on the floor to ensure required thickness.

COVERAGE

Area	Thickness	Coverage per unit ^
Wall	0.8 mm	6 m ²
Floors	1.6 mm	3 m²

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

TEMPERATURE RESISTANCE

-15°C to 70°C

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

SURFACE PREPARATION

General

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

Surface regularity:

Surface regularity is required to SR1 or better. 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 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

Falls & Drainage

The floor substrate must be laid to the correct falls as recommended in BS 5385: Part 4. Gradients between 1:80 and 1:35 are recommended Falls of 1:80 should be the minimum; gradients steeper than 1:35 might be inconvenient and even dangerous. The drainage rate of the gulley/drain must exceed the flow rate of the water source i.e. shower head.

SUITABLE SURFACES include:

Concrete; cement:sand screeds and rendering

Before tiling, ensure that the substrate is flat (SR1 or better), free from efflorescence, laitance, dirt, polished concrete and other loose materials. Remove using suitable mechanical methods.

Allow the following minimum drying times:

- Concrete/concrete block walls/clay brickwork: 6 weeks

– Cement:sand screed: 3 weeks

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BAL QUICKSET CEMENT:sand screeds and rendering

- Bonded screeds: 4 hours

- Unbonded/floating screeds: 48 hours

Rendering (bonded): 4 hoursBAL QUICKSET RENDER: 2 hours

Dense concrete/ lightweight blockwork walling

Allow new block mortar to dry for minimum 6 weeks before rendering (such as BAL QUICKSET RENDER) /plastering.

BAL BOARD

When using BAL WATERPROOF 1C, always use the decorating smooth side of BAL BOARD, or prime the BAL BOARD on the tiling side with one neat coat of PRIMER 1C (for further information see BAL TECHNICAL DATA SHEET on BAL BOARD).

Plaster (finish coat only) - Internal 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 and remove any surface dust.

Weight restrictions for tiling onto plaster walls i.e. maximum weight of 20kg/m^2 .

Prime the surface with one neat coat of BAL PRIMER 1C Note: The use of plaster is not recommended in commercial wet rooms or domestic power showers.

Plasterboard - Internal only

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

Maximum 32kg/m² weight restriction for tiling onto plasterboard. NOTE: For higher weight tolerances use a suitable board. The use of plasterboard is not recommended in commercial wet rooms or domestic power showers.

Glazed/Unglazed ceramic tiles, quarry tiles, terrazzo and natural stone

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

For floors ensure that the existing finish is firmly adhered to the base.

Before applying, the tile surface must be skimmed with BAL MAX-FLEX FIBRE or BAL RAPID-FLEX ONE with BAL ADMIX AD1 (1 part BAL ADMIX AD1 to 3 parts clean cold water). Weight restrictions will depend on the background, contact BAL TECHNICAL ADVISORY AND SPECIFICATION SERVICE.

Fibre reinforced cement boards and lightweight tile backer boards

Install boards to BS 5385 – i.e. moisture-resistant boards 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. Some boards may require priming, prior to tiling with a cementitious based tile adhesive.

Prime the surface with one neat coat of BAL PRIMER 1C. IMPORTANT NOTE: Obtain manufacturer's confirmation that boards are suitable for the tiling application and for relevant fixing instructions.

Weight restrictions will depend on the background, contact BAL TECHNICAL ADVISORY AND SPECIFICATION SERVICE.

Undertile electrical heating systems

Can be used onto electrical undertile heating systems encased within an appropriate BAL leveller.

Onto BAL RAPID-MAT

Uncoupling matting onto problematic floors

- Protecting floor tiling against reflective cracks, fractures and other damage caused by stresses and lateral movement in the substrate.
- Suitable for most problematic floor substrates including timber floors, new screeds and floors with under-tile heating systems.
- Suitable for most tile types including natural stone and mosaics

No Primer required when using BAL WATERPROOF 1C

*NOTE: Important information: the use of timber boards and sheets should be avoided if possible in wet conditions. Ideally, wood-based sheets or boards should be replaced by over boarded using a suitable tile backing board such as BAL BOARD before applying BAL WATERPROOF 1C.

Timber-based sheets and boards are not recommended for

Timber-based sheets and boards are not recommended for use in commercial/power showers floors etc.

New/existing Timber Floors (Incl. T & G Floorboards)

NOTE: As of May 2024 Plywood/Timber is no longer a suitable base for floor tiling directly to BS 5385 -3: 2024

Option 1 - Overlay with a suitable tile backer board of appropriate thickness and fixed as per manufacturers instructions.

Option 2 - An uncoupling matting such as BAL FLEXBONE VAried/2 Easy, BAL RAPID-MAT - can be selected providing that the plywood/timber floor is:

- the correct grade
- sufficiently dry, rigid and stable
- able to carry all anticipated static and dynamic loads without deflection
- have adequate ventilation below
- flat and level (SR1)
- securely fixed (screwed to joists at 300mm centres, including any cross-noggins, if necessary)

When bonding tile backer boards or uncoupling mattings down to the surface of the timber, it should be prepared to receive an appropriate BAL cement-based adhesive. Sanding of the surface may be required to ensure any surface coatings are removed, e.g. varnish, lacquers, etc. Prime with 2 coats of (second coat applied at 90° to the first): BAL PRIME APD (undiluted). BAL BOND SBR (diluted 1:2 by volume with clean water) Allow each coat of primer to dry.

Heated Screeds

Suitable for sand/cement screeds with water fed underfloor heating encased within. Use in conjunction with BAL RAPID-MAT uncoupling matting. NOTE: For further information on other backgrounds and preparation, contact BAL TECHNICAL ADVISORY AND SPECIFICATION SERVICE.

Tool recommendations

To Apply	To Finish
Roller Applied	One coat at 0.8mm (walls)
	Two coats to achieve
	1.6mm thickness (floors)
Brush Applied	Brush Applied (more than
	one coat maybe required to
	achieve the correct
	thickness)
4mm Notched Trowel	One coat at 0.8mm (walls)
	Two coats to achieve
	1.6mm thickness (floors)

APPLICATION/USAGE

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

Application procedure

- BAL WATERPROOF 1C can be applied without priming onto plasterboard, cement:sand render, screeds, concrete, plywood overlays, BAL BOARD on the decorating smooth side and BAL RAPID-MAT. If waterproofing onto plaster, cement boards, BAL BOARD on the tiling side, then prime all surfaces with one coat of neat BAL PRIMER 1C and allow to dry for 15-30mins.
- Before applying BAL WATERPROOF 1C, use the selfadhesive BAL SCRIM TAPE at: Internal and external corners of walls/partitions. Wall junctions with base/upstands/columns. At pipe penetration points/drainage channels/outlets.
 Junctions of different base/background materials.
 Cracks and board joints in backgrounds over 3mm wide.
- Using a suitable roller, 4mm notched trowel or brush, apply BAL WATERPROOF 1C over the whole area including over the BAL SCRIM TAPE.
- 4. Wall: Using a roller, 4mm notched trowel or brush, apply one coat of BAL WATERPROOF 1C to walls but ensuring a min. 0.8mm. thickness.
- Floor: Apply BAL WATERPROOF 1C to floor at a min.
 1.6mm. thickness. NOTE: two coats maybe required to achieve the thickness. It is recommended to use two coats to ensure the required thickness.
- 6. Allow membrane to dry for minimum 2 hours before tiling.
- Using the correct BAL Adhesive and Grout. See BAL TECHNICAL DATA SHEET for further information or contact BAL TECHNICAL ADVISORY AND SPECIFICATION SERVICE.

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.

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.

ARDEX GROUP WARRANTY

ARDEX Group supplies products under a range of Brands into the UK and Ireland markets. This Warranty applies to BAL, ARDEX, Gutjahr, Wakol, Loba, wedi or Knopp products whether used individually or in combination provided they are used in accordance with the relevant product datasheets and the warranty terms and conditions are available on the website. This Warranty applies only to Products purchased and used in the UK and Ireland directly from one of the Brands or a Brand authorised stockist.

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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