



**The Choice of the Professional**

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# BAL-WP1 TANKING SYSTEM

## DESCRIPTION

A light grey, flexible, seamless tanking system comprising an acrylic-based primer, an acrylic-based coating, polyester tape and matting. Specifically designed to provide a watertight barrier to interior walls and floors beneath ceramic tiling.

## STANDARDS

THE BAL-WP1 TANKING SYSTEM has been independently tested by the Säureflieser Vereinigung Institute in Germany as being waterproof, certificate no. 3508/92.

The **BAL-WP1 TANKING SYSTEM** affords protection to water-sensitive backgrounds/bases and is suitable for use in both domestic and commercial situations.

The Tanking system is manufactured under an approved quality assurance system conforming to BS EN ISO 9002 and in accordance with the requirements of the environmental standards and operational scope of BS 7750:1994.

## APPLICATIONS & PERFORMANCE

PRODUCT	USE & SERVICE CONDITIONS												
	Walls	Floors	Worktops	Interior	Exterior	Dry	Wet	Commercial & Domestic Showers (1)	Swimming Pools	Heated Screeds	Limited Movement/Vibration		
<b>BAL-WP1 TANKING SYSTEM</b>	✓	✓	✓	✓	-	✓	✓	✓	-	✓	✓		
PRODUCT	BACKGROUND/BASES												
	Brick/Concrete (2)	Rendering	Lightweight Blockwork	Plaster	Plasterboard	Tile Backer Boards	Fibre: Cement Sheets (3)	Cement: sand screed	Anhydrite screed	Plywood Overlay (Floors only)	Vinyl Tiles/Sheets	Glazed Tiles/Bricks	Unglazed Ceramic Tiles/Hard Natural Stone
<b>BAL-WP1 TANKING SYSTEM</b>	✓	✓	-	✓	✓	✓(4)	✓	✓	✓	✓	✓(5)	✓(4)	✓
PRODUCT	TECHNICAL DATA												
	Bed-Thickness	Application	Coverage			Drying Time		Temperature Resistance	Packaging				
<b>BAL-WP1 TANKING SYSTEM</b>	1-2mm	Brush, roller or trowel	BAL-PRIME APD = 100-200ml/m <sup>2</sup> (5-10m <sup>2</sup> /litre) BAL-WP1 COATING = 1kg/m <sup>2</sup>			BAL-PRIME APD = 15 mins BAL-WP1 COATING = 24 hours		-30° to 100°C	PRIME APD WP1 COATING WP1 POLYESTER TAPE 50m x 100m rolls WP1POLYESTER TAPE MATTING 1m x 1m pieces 50m x 1m rolls				

(1) Do not use shower for at least 2 weeks following completion of grouting - BS 5385:Part 4:1992, clauses 6.3(f) and 6.4(h).

(2) Provided the surface is sufficiently flat and smooth.

(3) Check suitability of sheets for the intended purpose with the manufacturer.

(4) Apply a skim coat of a BAL cement-based adhesive modified with BAL-ADMIX

AD1, prior to tanking. For wall areas BAL-GRIP may be used. Allow adhesive to dry.

(5) Apply a skim coat of BAL-SINGLE PART FLEXIBLE or BAL-RAPIDSET FLEXIBLE, prior to tanking. Allow adhesive to dry. Alternatively, use a BAL cement-based adhesive modified with BAL-ADMIX AD1.

**Not recommended for use on paint or metal.**

## SURFACE CONSIDERATIONS

**NEW CONCRETE/BRICK/BLOCK WALLING:** Before rendering/plastering /tanking allow walls to dry out by exposure to air for at least 6 weeks.

**NEW CEMENT/SAND RENDERING:** Before commencing tanking, allow new rendering to dry out by exposure to air for at least 2 weeks or for rendering based on BALQUICKSET CEMENT, 48 hours.

**NEW GYPSUM PLASTER:** Before commencing tanking, ensure that the plaster has been allowed to dry out by exposure to air for at least 4 weeks. Ensure that the finish

coat has been applied and that the plaster is free from dust, efflorescence and friable material. Cut back any defective areas, including badly cracked plaster, to straight horizontal and vertical edges. Thoroughly dry brush background and edges and make good with plaster or a suitable non-shrinking filler. Plaster having a shiny, polished surface should be thoroughly brushed with a stiff bristled brush, followed by priming with BAL-PRIME APD. Allow the primer to dry.

**GYPSUM PLASTERBOARD BACKGROUNDS:** Ensure that boards are dry, securely fixed and rigid with no protruding fixings and the face intended to receive the decorative finish is exposed.

**GLAZED TILES/ BRICKS:** Ensure that existing tiles/bricks are firmly adhered to their bed and that the bed is sufficiently strong to support the weight of new tiling. Remove loose or hollow sounding areas and make good with a 1:3 cement:sand mortar applied over a slurry bonding coat, (see section on surface preparation), or with a suitable non-shrinking filler. To provide a key to the glazed tiles/bricks, apply a skim coat of a BAL cementbased adhesive modified with BAL-ADMIX AD1, prior to the application of the BAL-WP1 TANKING SYSTEM. Allow adhesive to set. Suitable adhesives are BAL-CEM GOLDSTAR, BAL-CTF3 and BAL-RAPIDSET. BAL-GRIP may be used on walls.

**FIBRE CEMENT SHEET BACKGROUNDS:** Ensure that sheets are dry, securely fixed and rigid and fixings do not protrude. Seal exposed edges of sheets with BAL-BOND SBR but do not seal or prime surfaces to be tiled. Check suitability of sheets for the intended application with the manufacturer.

**FIBRE MESH REINFORCED CEMENT FACED TILE BACKER BOARDS:** Ensure that boards are dry, securely fixed and rigid and that any fixings do not protrude. Apply a skim coat of a BAL cement-based adhesive modified with BAL-ADMIX AD1, prior to the application of the BAL-WP1 TANKING SYSTEM. Allow adhesive to set. Suitable adhesives are BAL-CEM GOLDSTAR, BAL-CTF3 and BAL-RAPIDSET. BAL-GRIP may be used on walls.

**NEW CONCRETE BASES:** Before commencing tanking ensure that bases have been allowed to dry out by exposure to air for at least 6 weeks.

**NEW CEMENT:SAND SCREEDS:** Before commencing tanking ensure that screeds have been allowed to dry out by exposure to air for at least 3 weeks or, if based on BAL-QUICKSET CEMENT, 48 hours.

**EXISTING CONCRETE/SCREED BASES:**

- Cut out all loose or hollow portions and make good with a 1:3 cement:sand mortar applied over a slurry bonding coat, (see section on surface preparation). Alternatively, make good with BAL-POURABLE THICK BED (or BAL-PTB FLEXIBLE) over a slurry bonding coat of 2 parts adhesive to 1 part BAL-BOND SBR.
- Carefully remove any soft or unsound residues of existing adhesive without damaging the base. Ensure remaining adhesive residue is sound and firmly bonded to the base. Apply BAL-ACRYBASE to provide a flat, smooth surface for tanking.

**PLYWOOD OVERLAY:**

- To BS 6566 or equivalent approved national standard. Surface grade: II or BB. Bond type: WBP. Durability class: H, untreated. Thickness: 15mm minimum.
- Ensure that existing floorboards are dry, securely fixed and acceptably level.

Remove or fill any gross irregularities and punch in any protruding fastenings.

- Prior to fixing, seal the underside and all edges of the plywood with BAL-BOND SBR.
- Lay sheets with cross joints staggered and a 0.5 to 1mm gap between boards.
- Fix with countersunk screws at 300mm centres with screw heads flush with the surface.

**CERAMIC/QUARRY TILE/TERRAZZO/HARD NATURAL STONE BASES:**

- Check that existing finish is firmly adhering to the base.
- Remove any loose or hollow sounding areas and make good with a 1:3 cement:sand mortar applied over a slurry bonding coat, (see section on surface preparation).

Alternatively, make good with BAL-POURABLE THICK BED (or BAL-PTB FLEXIBLE) over a slurry bonding coat of 2 parts adhesive to 1 part BAL-BOND SBR.

**VINYL TILE/SHEET BASES:**

- Check that existing vinyl tiles/sheet are firmly bonded to their base.
- Remove loose or damaged tiles/areas of sheet along with any loose or soft adhesive.
- Make good the exposed surface with BAL- ACRYBASE or an adhesive from those listed below.
- Remove all traces of polish, grease, etc.

- **Note: cushioned types of flooring are not suitable and must be completely removed prior to tiling.**

- Apply a skim coat of BAL-SINGLE PART FLEXIBLE or BAL-RAPIDSET FLEXIBLE, prior to the application of the BAL-WP1 TANKING SYSTEM.

Allow adhesive to set. Alternatively, use a BAL cementbased adhesive modified with BAL-ADMIX AD1. Suitable adhesives are BAL-CEM GOLDSTAR, BAL-CTF3 and BAL-RAPIDSET.

## SITWORK INSTRUCTIONS

### SURFACE PREPARATION

Before starting any work ensure that the base is:

- Sufficiently flat to permit the specified flatness of finished tiling, bearing in mind the permissible minimum and maximum thickness of the bedding material. Ensure that the required falls have been incorporated.
- Suitable for tiling in the service conditions to which it will be exposed.
- Sufficiently strong and rigid to support the tile finish.
- Free from efflorescence, laitance, dirt and other loose material. Remove by thoroughly dry brushing.
- Free from deposits of oil, grease and other materials incompatible with the tanking system. Remove using a suitable emulsion cleaner then wash with clean water.
- Clean. All tile and other non-porous surfaces should be cleaned down by washing with water containing detergent, then clean water.
- Dry.

#### SLURRY BONDING COAT:

- For mortar using Portland cement:

Mix by weight 2 parts Portland cement to BS 12, class 42.5 to 1 part BAL-BOND SBR.

For mortar using BAL-QUICKSET CEMENT:

Mix by weight 2 parts BAL-QUICKSET CEMENT to 1 part BAL-BOND SBR prediluted 1:1 with clean water.

- Brush on to base immediately before applying mortar.

#### TILING TO HEATED FLOORS:

- Before starting work ensure that:
  - The screed has been allowed to dry out for at least 3 weeks if containing Portland cement to BS 12, class 42.5, or 1 week if containing BAL-QUICKSET CEMENT.
  - After drying out, the screed has been heated slowly at a maximum rate of 5°C per day to a temperature of 25°C and maintained at that level for 3 days before being allowed to cool to room temperature.
  - The heating system has been turned off or in cold weather turned down to below 15°C.
- On completion of tiling ensure that 14 days elapse before the floor is brought to its operating temperature at a maximum rate of 5°C per day.

## INSTALLATION PROCEDURE

#### TANKING WITH BAL-WP1:

- Prime all surfaces with BAL-PRIME APD and allow to dry.
- At the following locations apply BAL-WP1 COATING reinforced with BAL-WP1 POLYESTER TAPE:
  - Internal and external corners of walls/partitions and their junctions with bases, upstands, columns, etc.
  - Pipe penetrations, drainage channels and outlets.
  - Junctions of different background/base materials.
  - Cracks and joints in background/base.
- Apply a second coat of BAL-WP1 COATING over the BAL-WP1 POLYESTER TAPE.
- Apply BAL-WP1 COATING to walls.
- Apply BAL-WP1 COATING to floor. For heavy duty wet areas (e.g. communal showers and industrial wet process areas) and where some vibration or deflection in the base may be expected (e.g. timber bases), reinforce with BALWP1 POLYESTER MATTING. Bed the matting into the coating and apply a second layer of coating over the top.
- Ensure that the BAL-WP1 TANKING SYSTEM is applied free from voids.
- Allow membrane to dry for at least 24 hours before tiling.

#### Notes:

- 1 Not recommended for use externally, in conditions of total water immersion or as a barrier to prevent ingress of water from the background/base.**
- 2 Use BAL-WP1 at 1-2mm only. Any uneven areas in the background/ base should be made good prior to tanking. Do not use the BAL-WP1 TANKING SYSTEM for this purpose.**
- 3 BAL-WP1 does not provide a wearing surface. Use in conjunction with ceramic tiling.**

## GENERAL

Ceramic tiles, mosaic, terrazzo, natural stone etc. should be installed in accordance with BS 5385, parts 1-5.

## SHELF LIFE/STORAGE

12 months when stored in normal dry conditions. During storage the temperature should not rise above 32°C nor fall below 4°C. Protect from frost.

## CONDITIONS OF SALE

Sold subject to the Company's conditions of sale which are available on request.

## THE BAL 10 YEAR GUARANTEE

BAL products are guaranteed to be free from manufacturing defects and fit for purpose. The BAL 10 year guarantee covers costs of replacement materials and labour. For further details and/or copies please contact the Marketing Department. BAL products must be used strictly in accordance with BAL's instructions and technical data and good working practice. Note: Any advice, opinion or information is given to assist the use of the Company's products on the basis that the user will ensure its suitability for the application intended. In particular the Company cannot accept liability for loss or damage which may arise from incorrect use of its products or from poor workmanship. The company operates a continuous research and development programme and reserves the right to update information without notice.

## TECHNICAL ADVISORY SERVICE

For free expert guidance on the use of this product or any aspect of ceramic tiling telephone the BAL TECHNICAL ADVISORY AND SPECIFICATION SERVICE on:  
Tel: 01782 591120 Fax: 01782 591121

## BAL POWERSPEC

BAL POWERSPEC is a unique computerised specification system for the design and installation of ceramic, natural stone tiling and mosaic. Visit [www.powerspeconline.com](http://www.powerspeconline.com)

## SALES AND TECHNICAL ENQUIRIES SHOULD BE ADDRESSED TO

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