

dpm

Multi-Purpose Damp Proof Membrane, Waterproof Coating and Primer

DESCRIPTION

Multi-purpose two component, solvent free, low viscosity epoxy coating for use as a primer, DPM and waterproof coating prior to the application of ceramic tiles or natural stone.

Use for

Multi-purpose Primer/DPM/Waterproof coating. Ideal for raised access floors, wet rooms, ground floor slabs, marine environments, plant rooms, sewage plants and swimming pool area. May also be used on internal and external vertical surfaces.

- Specifically formulated to be used as a 1-coat DPM for concrete slabs and cement sand screeds that are dense, well compacted and sound, where readings of up to 98% RH can be accommodated (measured using a hygrometer).
- Ideal to be used as a primer layer to screeds, concrete, renders or masonry surfaces, steel and other vertical and horizontal surfaces. N.B. sand-blinding e.g. using BAL SAND is required to provide a mechanical key before tiling or rendering.
- Ideal to be used as a waterproof coating. N.B. sand blinding is required e.g. using BAL SAND to provide a mechanical key before tiling or rendering. May also be used with a suitable aggregate, to provide a reduced slip wearing surface for pedestrian traffic.

MIX/USAGE DATA

Pot Life	Initial cure	Specific Gravity
20 minutes	8 hours	1.2

APPLICATION DATA

Use for	Thickness [^]	Sand/aggregate required
Damp proof membrane	1 coat of 350 microns	Not applicable
Waterproof coating	2 coats of 200 microns	Sand blind second coat when tiling
Primer	1 coat of 200 microns	Sand blind when tiling

Restrictions: NOT suitable for

Direct food contact. Should not be used in contact with potable water.

PRODUCT INFORMATION

Composition: Epoxy resin paste + epoxy hardener.

Colour: Light Grey

Pack sizes: 5 litres

Key features: Chemical-resistant. Solvent free. Waterproof. Durable and abrasion-resistant.

Initial Cure: 8 hours

COVERAGE

Pack Size	Thickness	Coverage [^]
5 Litre BAL DPM	200 microns	24m ²
5 Litre BAL DPM	350 microns	13.5m ²
BAL SAND	N/A	25m ²
BAL SELF ADHESIVE BUTYL TAPE	N/A	10m

COVERAGE

[^] May vary dependent on nature and flatness of the substrate, and on spreader used.

APPLICATION AREAS

Concrete	✓
Screed, render or masonry surfaces	✓
Other vertical/horizontal hard surfaces (1)	✓
Ground floor slabs (1)	✓

SURFACE PREPARATION

General

Before applying to the wall and floor, ensure that: Surfaces are hard, sound and free of dust, laitance, dirt and other barrier materials such as paint, lime coatings, plaster and adhesive residues. Any existing renders, screeds or levelling/smoothing compounds not resistant to moisture must also be removed. Use a suitable degreaser to remove polish, wax, grease, oil and similar contaminating substances, followed by thorough mechanical preparation. Concrete curing agents, admixtures and surface hardeners and the residues of these products can impair adhesion. These should be removed by scrubbing, grinding, or shot blasting, as appropriate. If any doubt exists with compatibility with any other surface, a trial adhesion test with BAL DPM should be carried out before work commences. Please consult the BAL TECHNICAL ADVISORY AND SPECIFICATION SERVICE.

Steel should be suitably mechanically prepared back to bright steel e.g. S A 2½. In wet locations the steel must be protected with a suitable anticorrosion primer.

Application over underfloor heating

The cementitious levelling screed should have been laid in accordance with BS 8204 Part 1. The underfloor heating system should have been commissioned in accordance with the manufacturer's instruction manual and in accordance with BS 8204 Part 1. Once thermally cycled and commissioned the underfloor heating system should be turned off for 48 hours prior to, and 48 hours after, the installation of the BAL DPM, smoothing compound and final floor covering. The underfloor heating system should then be gradually recommissioned to avoid rapid thermal shock and temperature variation. NOTE: For further information on other backgrounds and preparation, contact BAL TECHNICAL ADVISORY AND SPECIFICATION SERVICE.

Anhydrite Screeds

IMPORTANT NOTE: Obtain screed manufacturer's confirmation that the screed is compatible with a DPM and does not contain any additives that may reduce the adhesion between the screed and the DPM. BAL DPM is suitable for use on Anhydrite Screeds up to 87% RH, however this may vary depending on the screed manufacturer's recommendation. Always follow the screed manufacturer's recommendation for maximum R.H before application. The R.H measured must be below the defined maximum across all areas of the floor before application of the DPM.

Suitable screeds must be well-prepared and laitance-free.

Should the screed have underfloor heating, the underfloor heating system should have been commissioned in accordance with the manufacturer's instruction manual and in accordance with BS 8204 Part 1. Once thermally cycled and commissioned the underfloor heating system should be turned off for 48 hours prior to, and 48 hours after, the installation of the BAL DPM. The underfloor heating system should then be gradually recommissioned to avoid rapid thermal shock and temperature variation.

USAGE & SERVICE CONDITIONS

Walls	✓	Floors	✓
Interior	✓	Exterior	✓
Dry	✓	Wet	✓
Wet Rooms (1)	✓	Raised Access Floors (1)	✓
Swimming Pools (1)(4)	✓	Plant Rooms (1)	✓
Hydrotherapy Pools (1)(4)	✓	Limited Movement / Vibration	✓
		Chemical Resistance	✓

(1) When sand blinded can be used as a waterproof key for tiling bedding or renders.

MIXING

1. The individual components should be thoroughly stirred before being mixed.
2. The entire contents of the hardener container should be poured into the resin container and the two materials mixed thoroughly for at least 3 minutes using a heavy-duty slow speed drill and spiral paddle.
3. Some of the mixed components should be re-introduced back into the hardener container in order to activate any residue and then pour back into the large mixing vessel and re-mix for 30 seconds.
4. Can be used on the swimming pool surround and as a blinded priming coat for metallic movable parts prior to tiling. Not intended as primary tanking for pool.

NOTE: Mixing in this way will ensure product consistency and also that any resin or hardener that remains in the containers after application will cure to allow for easier waste disposal.

APPLICATION/USAGE

IMPORTANT NOTE: Once mixed, BAL DPM will generate heat and lose pot life/working time if it is left in the mixing container or otherwise kept in bulk. Therefore, BAL DPM should be poured directly into a roller tray or poured in lines over the prepared floor area approx. 1 metre apart to allow access. NOTE: Distribute without delay to the prepared surface.

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

Trowel recommendations

Area	Trowel
Priming coat (for tiling) 1 coat	BAL A2 V NOTCHED SPREADER
DPM (Damp Proof Membrane) 1 coat	BAL B2 V NOTCHED SPREADER
Waterproofing (2 coat application)	BAL A2 V NOTCHED SPREADER

NOTE: ensure you achieve the correct contact of coating to the background/base in line with EN ISO 7783 (moisture vapours transmission rating).

Application procedure

DPM coating

1. Apply one even coat of the mixed BAL DPM by means of the BAL B2 V NOTCHED SPREADER.
2. Whilst the BAL DPM is still wet, the serration ridges should be flattened out with a long handled short pile paint roller initially pre-wetted with the mixed BAL DPM before applying to the serration ridges. The minimum application thickness is 350 microns.

NOTE: If pin holes are showing, a second coat should be applied after a minimum of 8 hours. The second coat should be applied at 90° to the first coat.

If tiling onto the DPM, a priming coat will be required (see following page).

NOTE: When using BAL FLEXBONE 2Easy uncoupling mat, a priming coat and blinded with BAL SAND is NOT required, lay the mat direct onto the BAL DPM coating once dry.

Priming coat

1. Apply an even coat of the mixed BAL DPM using the BAL A2 V NOTCHED SPREADER over the prepared base or DPM coating (see table for trowel recommendations).
2. Whilst the BAL DPM is still wet, the serration ridges should be flattened out with a long handled short pile paint roller initially pre-wetted with the mixed BAL DPM before applying to the serration ridges. The application thickness should be 200 microns.
3. Whilst the BAL DPM is still wet, blind with BAL SAND at a rate of 1kg/m² and allow to cure for a minimum of 8hr at 20°C. IMPORTANT NOTE: Ensure sufficient sand/aggregate covers the entire area and no BAL DPM is visible.
4. The following day, remove the excess BAL SAND from the surface using a vacuum cleaner to provide a suitable key for BAL LEVEL MAX or BAL FLEXIBLE CEMENT BASED ADHESIVE.

Waterproofing coat

1. Fill any gaps of >1mm with a suitable BAL cement based adhesive and allow the adhesive to cure.
2. Apply BAL SELF ADHESIVE BUTYL TAPE to all corners and edges, with the centre of the tape fold aligned with corners or edges.
3. Apply BAL DPM using the A2 trowel.
4. Whilst the BAL DPM is still wet, the serration ridges should be flattened out with a long handled short pile paint roller initially pre-wetted with the mixed BAL DPM before applying to the serration ridges. The application thickness should be 200 microns.
5. Allow the first coat to cure for >8 hours.
6. Apply the second coat as above. If the installation is to be tiled, the second coat should be blinded with BAL SAND at a rate of 1kg/m².

IMPORTANT NOTE: Ensure sufficient sand/aggregate covers the entire area and no BAL DPM is visible.

The following day remove the excess BAL SAND from the surface using a vacuum cleaner to provide a suitable key for the BAL FLEXIBLE CEMENT BASED ADHESIVE such as BAL RAPID-FLEX ONE.

CLEANING

Always use appropriate cleaning wipes for restrooms and work area when still wet.

HEALTH & SAFETY INFORMATION / GOOD PRACTICE ADVICE

For detailed information and safety guidance, please refer to Material Safety Data Sheet [MSDS] of each component.

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

SHELF LIFE

12 months in the original unopened container when stored 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.

For sales and technical queries, contact:

BUILDING ADHESIVES LTD

Longton Road, Trentham, Stoke-on-Trent, ST4 8JB, England
www.bal-adhesives.com

Sales

Tel: +44 (0) 1782 591160

Fax: +44 (0) 1782 591131

Technical

Tel:

+44 (0) 3330 030160

Email: info@building-adhesives.com

Ireland

Unit 622, Phase III

Northwest Business Park

Ballycoolin, Dublin 15, Ireland

Tel: +353 (0) 1 880 9210

Fax: +353 (0) 1 880 9211

NOTE: BAL reserves the right to update instructions, technical data and other information at any time without notice.

PorcelBond Plus™ is a trademark of Building Adhesives Ltd

