Technical Data Sheet ISSUED JANUARY 2026

PRODUCT DESCRIPTION

WPA AQUALAY is an innovative, high performance, flexible, easy to install new generation sheet waterproofing membrane system. The sheet itself consists of an EBA core with a laminated non-woven geotextile fleece on either side of the central core. This unique system allows surface finishes including tiles, screeds and topping to be installed within hours of the membrane installation.

Due to the highly flexible central core it also provides anti-fracture properties by isolating overlaying finished substrates surface cracks and defects.

Recommended for:

- Internal wet areas, including Laundries, Toilets & Bathrooms
- Wet rooms.
- Balconies & terraces to be covered with tiles.
- Anti-fracture system for internal tiling over concrete substrates.
- Suitable for residential and commercial applications.

FEATURES AND BENEFITS

- Fast installation and drying time.
- Suitable for direct installation of toppings, screeds, acoustic underlays and ceramics.
- Provides an anti-fracture system against surface cracks.
- Suitable for both vertical and horizontal substrates.

APPLICATION PROCEDURE

Substrates

WPA Aqualay is suitable for concrete, render, screeds, block work, fibre-cement sheeting, wet area grade plasterboard, lightweight structural flooring, PAA certified structural and marine grade plywood & particle board flooring (for internal applications only).

Preparation

All surfaces to be waterproofed must be firm, clean, dry, sound and smooth. All laitance, grease, oil, wax, curing compounds, loose material, paint and any other contaminants which may reduce or prevent adhesion must be mechanically removed. Masonry surfaces must be pointed flush and surface defects repaired.

New concrete must be cured for a minimum of 28 days.

Render and cement screeds must be cured for a minimum of 7 days.

Priming

Dry porous substrates can be primed with WPA 360, WPA SB or WPA 460 primers.

Damp substrates with a RH of <75% must be primed with WPA 460.

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Certificate CM40320
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Substrates with an RH >75% must be primed with WPA 560 Moisture Seal.

Green cementitious screed can be primed with WPA 260.

Non-Porous substrates such as metals or PVC must be primed with WPA 160.

Lightweight structural flooring must be primed with WPA 460.

Fibre cement sheeting, water resistant plasterboard, PAA structural and marine grade plywood, particle board and lightweight structural flooring must be installed in accordance with the manufacturers' installation requirements.

Detailing

All critical areas including joints, junctions, penetrations, drainage outlets and cracks are to be detailed as described below.

Cracks <1.5mm	N/A
Cracks >1.5mm	Fill with WPA MS or WPA SPUR Sealant
Perimeter transition	WPA Elastoband
Vertical transitions	WPA Elastoband
Movement and expansion joints	WPA Elastoband
Penetrations, pipes and drainage outlets	WPA Elastoband Collars & WPA MS or WPA SPUR Sealant or Butyl Squares

Note: Please refer to the WPA 200 membrane TDS for mixing and installation details.

Application

Measure and pre-cut the WPA Elastoband for the wall/floor junctions. Apply WPA 200 by either brush or roller to the wall/floor junction extending it 100mm either side of the junction. Embed WPA Elastoband into wet WPA 200 with a brush or appropriate plastic trowel/spatula, ensuring fabric edges are fully wetted out and removing air pockets and excess WPA 200. At sections where WPA Elastoband is to be joined, a minimum 50mm overlap is required. Install WPA Elastoband Prefabricated internal and external corners.

Pre-cut the WPA AQUALAY to the desired length, leaving no more than 5mm between the sheet edge and the horizontal

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or vertical junctions. Apply WPA 200 by either brush or roller ensuring 100% coverage.

Position and unroll the WPA AQUALAY into the wet WPA 200 and using a plastic trowel or float, or a pressure roller, press the WPA AQUALAY firmly into the WPA 200, ensuring a firm bond is achieved by removing all air pockets and excess WPA 200.

Sheets must be overlapped a minimum of 50mm. Seal all laps with WPA 200.

NOTE: For installation of the above system over particle board or plywood substrates use WPA MS Adhesive to adhere the WPA AQUALAY sheet prior to the installation of the WPA Elastoband. Install WPA Elastoband in accordance with the above instructions.

Pipe penetrations and tap fixtures will require the WPA AQUALAY to be cut to enable the sheet to be placed over the penetration or fixture. Measure and place a cut where the sheet will be positioned and install the sheet ensuring the WPA AQUALAY is firmly bonded around the penetration or fixture. Apply WPA 200 and install a WPA Elastoband collar and complete the installation with a liberal coat of WPA 200 to fully seal the overlapped section.

Installation of tiles and stone coverings

Ceramic tiles and stone must be installed with a minimum C2S1 tile adhesive, such as TPA 401M or TPA Light, in accordance with the Technical Data Sheets.

Performance data and Physical Properties

Membrane	EBA (ethylene butyl acrylate)
Surface	Non-woven geotextile
Thickness	0.57 mm
Material weight	270g/M^2
Working Temperature	-20ºC to +80ºC
Tensile Strength	0.7 N/mm2
Shear resistance of joint N/50	230
Water Vapour Diffusion resistance Coefficient MN.s/g	16

LIMITATIONS

Do not apply **WPA AQUALAY**:

- If it is raining or if rain is imminent.
- Over contaminated substrate.
- Not compatible with solvent based materials, e.g. adhesives, sealants or coatings.
- As an exposed membrane system, must be covered and protected by screeds, tiles or stone.
- In areas subject to vehicular traffic.
- Do not apply when surface temperature is below 5ºC or above 30ºC.
- To areas of continuous immersion such as swimming pools, ponds, water features or water tanks.
- For further information about this product contact the WPA Technical Department.

Packaging

WPA AQUALAY is available in 1M x 30M rolls.

Coverage

One roll of WPA AQUALAY covers 30 M^2.

(Not allowing for overlaps and wastage).

Shelf Life

24 months in a dry environment away from direct sunlight. If stored at high temperatures or humidity, the shelf life may be reduced.

Safety Precautions for WPA AQUALAY Ancillary Products

Clean Up

Tools and minor spills can be cleaned with water while WPA 200 is still wet. Wet WPA MS adhesive can be removed with Handywipe cleaning cloths. Cured WPA 200 or WPA MS adhesive can only be removed by mechanical means.

SAFETY INSTRUCTIONS

For instructions on the safe use of WPA Aqualay please refer to the latest version of the Safety Data Sheet available from our website www.wpa-aus.com.au.

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WARRANTY CONDITIONS

Bayset Pty Ltd trading as Waterproofing Products Australia (Bayset) offers a limited warranty in respect of this product, subject to certain terms and conditions set out in the warranty documentation which has been made available at www.bayset.com.au. Please contact Bayset directly to obtain a copy of the warranty documentation relevant to this product.

DISCLAIMER

The technical information and application advice given in this Technical Data Sheet is based on the present state of Bayset Pty Ltd's best scientific and practical knowledge and is intended to give a fair description of the product and its capabilities. As the information contained herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness, either expressed or implied, is given other than those required by law. In practice, the substrate and environmental conditions vary widely, making it essential for the user to determine the product's suitability for a particular application and that the product is not used beyond its physical limitations.

The user is responsible for checking the suitability of products for their intended use.

*NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by Bayset Pty Ltd (trading as Waterproofing Products Australia) either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not Waterproofing Products Australia, are responsible for carrying out procedures appropriate to a specific application.

DOCUMENT CONTROL	
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Author	SR

Technical Data Sheets are subject to change without notice.
For latest revision, check our website at www.wpa-aus.com.au

This is a CONTROLLED document under WPA's Quality System.

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