

Technical Data Sheet ISSUED SEPTEMBER 2022

PRODUCT DESCRIPTION

WPA 500 is a waterborne flexible waterproofing membrane specifically designed for use under ceramic and stone tile finishes. The unique formulation provides excellent workability and film build.

Recommended for:

- Bathrooms
- Laundries
- Balconies
- Waterproofing of areas subsequently covered by ceramic or stone tiles

FEATURES AND BENEFITS

- Class III membrane in accordance with AS 4858 & AS 4654.1
- Fast drying
- Low VOC content
- Fibre reinforced
- Compatible with a wide range of tile adhesives
- Permanently flexible
- Completely resistant to re-emulsification (when fully cured)
- Excellent adhesion to a wide variety of substrates

APPLICATION PROCEDURE

Substrates

WPA 500 is suitable for concrete, render, screeds, block work, fibre-cement sheeting, wet area grade plasterboard, PAA certified structural and marine plywood and lightweight structural fibre cement sheeting.

Always contact the manufacturer if there is any doubt about the suitability of the substrate.

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.

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

WPA 500 requires a fillet (bond breaker) using WPA MS, WPA SPUR or Admil SupaSeal PU sealant at all horizontal and vertical transitions and must be applied in accordance with AS 4858 & AS 4654.1. For optimal performance, incorporate WPA Elastoband SG or WPA Butyl Tape at all transitions.



Static Crack Treatment

For cracks less than 1mm, clean cracks thoroughly before filling with WPA MS, WPA SPUR or Admil SupaSeal PU.

WPA 500 cannot span gaps. For dynamic cracks/expansion joints and control joints, the use of WPA Elastoband SG or WPA Butyl Tape systems is recommended. Contact the WPA Technical Department for further advice.

Priming

Dry porous substrates must be primed with WPA 360 water-based or WPA SB solvent-based primers. Damp substrates with a RH of <75% must be primed with WPA 460 two-part epoxy primer. Substrates with an RH >75% must be primed with WPA 560 Moisture & Vapour Barrier.

Lightweight structural fibre cement sheeting must be primed with WPA 460 or WPA 560 two-part epoxy primer. Non-porous substrates, such as metals or PVC must be primed with WPA 160 Non-Porous primer.

Apply the primer to the prepared substrate by using a brush or roller in accordance with the relevant product's Technical Data Sheet. Allow the primer to fully dry prior to commencing the application of WPA 500.

Application

Prior to application, stir the contents thoroughly. Using a brush or roller, apply the first coat of WPA 500 after the primer has sufficiently dried. Apply an even and consistent coat of approximately 0.75mm wet film thickness.

Once the first coat has dried, apply a second coat of WPA 500 at right angles to the first coat. Apply an even and consistent coat of approximately 0.75mm wet film thickness.

WPA 500 must be applied with a minimum of two coats to achieve a dry film thickness of not less than 1.0mm (1000 microns). Test the depth of coats with a wet film thickness gauge at regular intervals during installation.

Note: Avoid contact with skin and eyes. Wear splash proof goggles and rubber or PVC gloves at all times.

Performance Data and Physical Properties @23°C & 55% RH

- Allow 2-4 hours between coats.
- Allow 48 hours drying time prior to tiling.
- Allow longer drying times in cool, damp or higher humidity conditions.
- Allow 7 days to fully cure.

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Wet Form

- VOC25 grams/litre
- Appearance Blue or Grey
- Dry solid content >60%

Cured Membrane

- Elongation>300%
- Water vapour transmission0.60g/M²/24hrs

LIMITATIONS

Do not apply **WPA 500**:

- Over damp, wet or contaminated substrates
- If it is raining or if rain is imminent
- Directly over any existing coatings
- Directly to particle board flooring (Ceramic tile underlay must be installed)
- As an exposed membrane
- As a high wear surface for foot or vehicle traffic
- Where ambient or surface temperatures are below 10°C or greater than 35°C
- To areas subject to negative hydrostatic pressure or rising damp
- To areas of continuous immersion such as swimming pools, ponds, water features or water tanks

To reduce the possibility of surface contamination, it is recommended that tiling be carried out as soon as the membrane has cured.

Clean Up

Tools and minor spills can be cleaned with water while product is still wet. Cured WPA 500 can be cleaned with an alcohol based solvent or by mechanical means.

Packaging

WPA 500 is available in 4 litre and 15 litre pails.

Coverage

1.5 litres per m² at 1mm dry film thickness (10m² per drum).

The coverage figures are theoretical due to wastage and depending on the porosity and profile of the substrate, coverage figures may be reduced.

Shelf Life

Unopened pails can be stored for up to 12 months in a cool, dry and weatherproof environment. If stored at high temperatures, the shelf life may be reduced.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126).

Inhalation

Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining

clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if symptoms persist.

Skin Contact

If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.

If swelling, redness, blistering or irritation occurs seek medical assistance.

Eye Contact

If in eyes, wash out immediately with water. In all cases of eye contamination it is a sensible precaution to seek medical advice.

Ingestion

Rinse mouth with water. If swallowed, do **NOT** induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Seek medical advice.

Notes To Physician

Treat symptomatically.

Spills

Prevent from entering drains or waterways. Absorb with sand, earth or spill control material. Collect in properly labelled containers for disposal in accordance with local statutory requirements.

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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 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	
Product	WPA 500
Initial Issue	September 2010
Technical Amendment	August 2013
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Author	SR

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

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