Technical Data Sheet ISSUED DECEMBER 2023

PRODUCT DESCRIPTION

WPA 400 is an elastomeric, fibre reinforced waterproofing membrane based on high performance polymer technology.

Designed for a range of undertile waterproofing applications, WPA 400 offers excellent adhesion and outstanding low vapour transmission properties. Fully compatible with polymer modified cement based tile adhesives, screeds and renders. The unique formulation provides excellent workability and film build.

Recommended for:

- Bathrooms
- Laundries
- Balconies, podiums and decks
- Waterproofing of areas subsequently covered by ceramic or stone tiles

FEATURES AND BENEFITS

- Class III Membrane in accordance with AS/NZS 4858 and Class II in accordance with AS 4654.1
- Excellent adhesion to a wide variety of substrates
- Fibre reinforced
- Completely resistant to re-emulsification (when fully cured)
- Fast drying
- Extremely low VOC content
- Compatible with a wide range of tile adhesives
- Permanently flexible

APPLICATION PROCEDURE

Substrates

WPA 400 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.

CodeMark Australia

CMI CERTIFICATION
Certificate CM40317
Certificate CM40318

WPA 400 requires a fillet (bond breaker) using WPA MS, WPA SPUR or Admil SupaSeal PU sealant at all horizontal and vertical transitions. 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 400 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 primer with WPA 560 Moisture Seal.

Lightweight structural fibre cement sheeting must be primed with WPA 460 two-part epoxy primer or WPA 560 Moisture Seal. 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 400.

Application

WPA 400 must be applied in accordance with the applicable provisions of the National Construction Code.

Prior to application, stir the contents thoroughly. Using a brush or roller, apply the first coat of WPA 400 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 400 at right angles to the first coat. Apply an even and consistent coat of approximately 0.75mm wet film thickness.

WPA 400 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.

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WPA
WATERPROOFING PRODUCTS AUSTRALIA
400
FIBRE REINFORCED
WATERPROOF MEMBRANE

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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.

Wet Form

- VOC..... 15 grams/litre
- Appearance ..... Blue or Grey
- Dry solid content ..... ~60%

Cured Membrane

- Water vapour transmission ..... 0.1g/M^2/24hrs

LIMITATIONS

Do not apply **WPA 400:**

- Over damp, wet or contaminated substrates
- If it is raining or if rain is imminent
- Directly over any existing coatings
- As an exposed membrane
- As a high wear surface for foot or vehicle traffic
- Where ambient or surface temperatures are below10°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 400 can be cleaned with an alcohol based solvent or by mechanical means.

Packaging

WPA 400 is available in 15 litre pails.

Coverage

1.5 litres per M^2 at 1mm dry film thickness (10M^2 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.

SAFETY INSTRUCTIONS

For instructions on the safe use of WPA 400 please refer to the latest version of the Safety Data Sheet available from our website www.wpa-aus.com.au.

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.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 400
Initial Issue	July 2017
Technical Amendment	December 2023
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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