

Technical Data Sheet ISSUED DECEMBER 2023

PRODUCT DESCRIPTION

WPA Rapid is a waterborne, flexible waterproofing membrane, utilising next generation, self-crosslinking technology, which enables the membrane to achieve cured properties rapidly. WPA Rapid is designed for use under tiles in internal and exterior applications.

Recommended for:

- Bathrooms
- Laundries
- Kitchens
- Balconies
- Roof Tops

FEATURES AND BENEFITS

- Class III Membrane in accordance with AS/NZS 4858 and Class II in accordance with AS 4654.1
- Exceptional coverage (15M² per drum)
- Heavy duty applications
- Fast curing
- Low VOC
- 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 Rapid is suitable for concrete, render, screeds, block work, fibre-cement sheeting, wet area grade plasterboard, lightweight structural fibre cement sheeting and PAA certified structural grade marine plywood.

Always contact the manufacturer if in 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, lightweight structural fibre cement sheeting and plywood must be installed in accordance with the manufacturers' installation requirements.



WPA Rapid 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 Rapid 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 Seal. Lightweight structural fibre cement sheeting must be primed with WPA 460 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 Rapid.

Application

WPA Rapid 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 Rapid after the primer has fully dried. Apply an even and consistent coat of approximately 0.50mm wet film thickness.

Once the first coat has dried, apply a second coat of WPA Rapid at right angles to the first coat. Apply an even and consistent coat of approximately 0.50mm wet film thickness.

WPA Rapid must be applied with a minimum of two coats to achieve a dry film thickness of not less than 0.8mm (800 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.

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Performance Data and Physical Properties @21°C & 50% RH

- Allow a minimum 4 hours between coats.
 - Allow 24 hours after the final coat before tiling.
 - WPA Rapid will dry to a solid grey colour when fully cured. This will indicate the membrane is fully cured ready for flood testing.
 - Allow longer times in cool or damp weather conditions.
- (NOTE: At temperatures lower than 21°C the curing time will be significantly reduced).

Wet Form

- AppearanceGrey
- Dry solid content ~75%
- VOC..... 2.2%(w/v)

Cured Membrane

- Elongation.....>300%
- Water vapour transmission.....0.86g/M²/24hrs

Limitations

Do not apply **WPA Rapid**:

- 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 wear surface for foot or vehicle traffic
- Where ambient or surface temperatures are below 10°C or greater than 32°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

Clean tools and equipment with warm water and detergent while the membrane is still wet. Cured WPA Rapid can only be removed by mechanical means.

Packaging

15 litre plastic pails.

Coverage

Approx. 1.00 litre per M² at 0.8mm dry film thickness (Approx. 15M² per drum).

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

Shelf Life

24 months if stored in unopened sealed containers, when kept in a cool, dry storage area.

If stored at high temperatures, the shelf life may be reduced.

SAFETY INSTRUCTIONS

For instructions on the safe use of WPA Rapid 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 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

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For latest revision, check our website at www.wpa-us.com.au

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