

Technical Data Sheet ISSUED OCTOBER 2021

PRODUCT DESCRIPTION

WPA 100 is a single component, fibre reinforced, rapid drying, cementitious waterproofing membrane. It is based on special cements, modified with polymers, selected graded aggregates and special waterproofing additives to produce a flexible waterproofing compound.

WPA 100 is suitable for both positive and negative side waterproofing applications and is capable of withstanding significant strain.

WPA 100 has excellent adhesion to concrete, cement render and most common Fibre Cement sheeting types. WPA 100 is to be used in conjunction with WPA Elastoband SG or WPA Butyl Tape for maximum performance and ease of application.

Recommended for:

- Swimming Pools
- Planter Boxes
- Retaining Walls
- Balconies
- Rooftops
- Lift Pits
- Water Tanks

FEATURES AND BENEFITS

- Class I membrane in accordance with AS/NZS 4858 & AS 4654.1
- AS 4020:2018 approval for use with potable water
- Fast curing
- Suitable for both positive and negative hydrostatic water pressure applications
- Saltwater resistant
- Permanently flexible
- Completely resistant to emulsification
- Excellent adhesion to a wide variety of substrates
- Suitable for spray applications

APPLICATION PROCEDURE

Substrates

WPA 100 is suitable for concrete, render, screeds, block work and fibre-cement sheeting.

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

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 have cured for a minimum of 28 days. Render, cement screeds and core-filled block work must be cured for a minimum of 7 days.

Fibre cement sheeting and Scyon sheeting must be installed in accordance with the manufacturers' installation requirements.

WPA 100 is suitable for use in concrete and masonry swimming pools, spas and ponds provided they are rendered prior to the application of WPA 100 and the membrane is covered by suitable tile finishes installed with TPA Lite tile adhesive. Cementitious swimming pool finishes may also be applied to WPA 100.

A bond coat may be required, refer to coating manufacturer.

Crack Treatment

WPA 100 cannot span gaps. For dynamic cracks/expansion joints and control joints, the use of the WPA Elastoband SG or WPA Butyl Tape systems are recommended. Contact the WPA Technical Department for further advice.

Priming

Porous substrates must be adequately dampened with clean water prior to the application of WPA 100.

Dense substrates, such as metals or PVC must be primed with WPA 160.

Mixing

WPA 100 is mixed with water according to the intended application method. Add the appropriate amount of water into a bucket and slowly add the WPA 100 powder while slowly stirring with a mechanical mixer. Continue to stir until homogenous, lump free mixture is obtained. Do not mix by hand.

Mixing ratios may be adjusted as follows:

Roller or Spray application	6.5 - 7.5 L water / 20kg bag
Brush application	5.0 - 6.0 L water / 20kg bag
Trowel application	4.2 - 4.5 L water / 20kg bag

Product that has been mixed and allowed to stand for longer than 2 hours, or has become very thick, should be discarded.

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Application

WPA 100 requires a suitable detailing system for all horizontal and vertical transitions. For optimal performance incorporate WPA Elastoband SG or WPA Butyl Tape at all transitions. WPA 100 must be applied in accordance with AS3740 and AS 4654.2, as applicable.

Using a brush, roller or spray equipment, apply the first coat of WPA 100 after the substrate has been properly prepared. Apply an even and consistent coat of a minimum 1mm and a maximum 2mm wet film thickness.

Once the first coat has dried, apply a second coat of WPA 100 at right angles to the first coat. Apply an even and consistent coat of a minimum of 1mm and a maximum 2mm wet film thickness. Test the depth of coats with a wet film thickness gauge at regular intervals during installation. Allow the final coat to cure for 24 hours prior to installing tiles. Allow the membrane to cure for 7 days in swimming pools and 14 days in water tanks.

On retaining walls and in all Planter Box applications, allow the final coat to cure for 7 days prior to installation of WPA Drainage Cell and backfilling. WPA Drainage Cell must be installed to the entire waterproofed area once the membrane has fully cured.

The final dry film thickness for applications subject to positive hydrostatic pressure must be no less than 2.0mm and 3.0mm for applications subject to negative hydrostatic pressure.

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

Performance Data and Physical Properties @22°C & 55% RH

Dry time (per 1mm WFT)	<ul style="list-style-type: none">• 1-2 hours between coats
Curing Time Prior to Following Trades	<ul style="list-style-type: none">• 24 hours;• 7 days for swimming pool finishes.• 14 days if in contact with potable water;• Allow longer drying times in cool or damp weather conditions.
Resistance to Hydrostatic Pressure	<ul style="list-style-type: none">• 5.0 bar (50m) for both negative and positive hydrostatic pressure
Pot Life	<ul style="list-style-type: none">• > 30 min
SG of Mixed Product	<ul style="list-style-type: none">• 1.50 g/cm³
Elongation	<ul style="list-style-type: none">• > 10% & < 59%
Tensile Strength	<ul style="list-style-type: none">• > 2.0N/mm²
Classification	<ul style="list-style-type: none">• Class I in accordance with ASNZS 4858 and AS 4654.1
Dry Film Thickness	<ul style="list-style-type: none">• Positive: 2mm• Negative: 3mm

LIMITATIONS

Do not apply **WPA 100**:

- Over wet (standing water) or contaminated substrates
- If it is raining or if rain is imminent
- Directly over any existing coatings
- 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 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 100 can only be cleaned by mechanical means.

Packaging

WPA 100 is available in a 20kg bag.

Coverage

1.2 kg per M² at 1mm dry film.

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 bags 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.

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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.

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