

Technical Data Sheet ISSUED NOVEMBER 2024

PRODUCT DESCRIPTION

WPA Hybrid 1 is a one-part, liquid applied, moisture cured non-hazardous waterproofing membrane based on SMP technology (Silyl Modified Polymer), which offers a safe alternative to solvent-based PU membranes. WPA Hybrid 1 cures to form a seamless, tough, durable, elastomeric waterproofing membrane. WPA Hybrid 1 has excellent adhesion to most common building substrates and is suitable for above and below ground applications.

Recommended for:

- Retaining walls
- Planter boxes (contains inbuilt root inhibitor)
- Internal wet areas (under screed applications)
- Balconies and Decks (under screed applications)

FEATURES AND BENEFITS

- Class III membrane in accordance with AS 4858 and AS 4654.1
- Low VOC - Solvent and Isocyanate free
- Inbuilt root inhibitor for below ground applications
- Completely resistant to re-emulsification
- Excellent adhesion to a wide variety of substrates

APPLICATION PROCEDURE

Substrate

WPA Hybrid 1 is suitable for most common building substrates including concrete, render, screeds, block work, fibre cement and lightweight structural fibre cement sheeting, PAA certified structural and marine plywood. Adhesion testing on metal surfaces and other materials not listed on this TDS is advisable prior to the application of this product. 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.

* These time frames may be reduced by utilising WPA 560 Moisture Seal – Contact Bayset Technical Department for further advice.

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.



Extremely high MPa concrete that does not accept any water absorption on testing should be mechanically diamond ground prior to the use of WPA Hybrid 1.

WPA Hybrid 1 requires a fillet (bond breaker) using WPA SPUR or WPA MS at all horizontal and vertical transitions. For optimal performance, incorporate WPA Elastoband or WPA Butyl tape at all transitions and junctions.

Static Crack Treatment

WPA Hybrid 1 cannot span gaps. For static cracks less than <0.5mm, clean cracks thoroughly before filling with WPA SPUR or WPA MS. For dynamic cracks/expansion joints and control joints, contact Bayset Technical Department for further advice.

Priming

Dry porous substrates must be primed with WPA 360 water-based primer. 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 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 Hybrid 1.

Application

WPA Hybrid 1 must be applied in accordance with the applicable provisions of the National Construction Code.

Prior to the application, stir the contents thoroughly.

Using a brush or roller, apply the first coat of WPA Hybrid 1, after the primer has sufficiently dried. Apply an even and consistent coat to achieve a wet film thickness of 0.6mm.

Once the first coat has dried sufficiently, apply the second coat to achieve a wet film thickness of 0.6mm to form a total minimum membrane thickness of not less than 1.2mm DFT.

WPA Hybrid 1 must be applied with a minimum of two coats to achieve a dry film thickness of not less than 1.2mm (1200 microns).

It's important to test the depth of the coat with a wet film thickness gauge at regular intervals during installation.

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

- Allow 4 hours between coats
- Maximum recoat window is 48 hours
- Allow 48 hours prior to installing screeds
- Allow 72 hours prior to backfilling
- Allow longer drying times in cool, low humidity conditions as this will cure quicker the higher the humidity

Wet Form

- VOC78 grams/litre
- Appearance Grey

Cured Film

- Elongation>300%
- Water vapour transmission0.38g/M²/24hrs
- Tensile Strength>1MPa

LIMITATIONS

Do not apply **WPA Hybrid 1**:

- Over contaminated substrates.
- Externally if it is raining or if rain is imminent.
- Directly over any existing coatings.
- As an exposed finish subject to UV exposure.
- As a wearing surface for foot or vehicle traffic.
- For immersed applications.
- As a direct fix under-tile membrane.
- When the surface temperature is below 10°C or greater than 35°C.
- To areas subject to negative hydrostatic pressure or rising damp unless treated with WPA 560 Moisture Seal.

Clean Up

Avoid spills. Equipment should be immediately cleaned with a suitable cleaning solvent, isopropanol or a citrus based cleaner. Clean skin and hands using suitable Handy Wipes.

Packaging

WPA Hybrid 1 is packed in an easy to access wide mouth rectangular pail 15kg net weight.

Consumption

1.4kg/M² at 1.2mm dry film thickness (10.7M² per drum).

Note: The quoted coverage is theoretical, due to wastage and depending on the porosity and profile of the substrate, the coverage can vary considerably.

Shelf Life

12 months in unopened containers when stored in a cool dry and weatherproof environment.

Once opened curing will commence – reseal as soon as possible and discard any partially cured or skinned material.

SAFETY INSTRUCTIONS

For instructions on the safe use of WPA Hybrid 1 please refer to the latest version of the Safety Data Sheet available from our website www.wpa-us.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 Bayset Pty Ltd (trading as 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.