Technical Data Sheet ISSUED DECEMBER 2023

PRODUCT DESCRIPTION

WPA TuffCote is an elastomeric single part, water based polyurethane membrane which offers a hard wearing and slip resistant finish for external applications. In addition to being a stand-alone waterproofing membrane, it can also be used as a topcoat to increase the slip and wear resistance of the WPA 230UV and WPA 200 waterproofing systems in applications subject to residential foot traffic and permanent UV light exposure.

WPA TuffCote bonds exceptionally well to most suitably prepared substrates found in the construction industry, as well as WPA 230UV and WPA 200. It is resistant to fungi and algae growth and has excellent weather resistance.

WPA TuffCote can be used as a stand-alone surface coating on new or existing concrete surfaces to provide a fresh, rejuvenated and slip resistant finish.

Recommended for:

- Roof areas
- Walkways
- Decks and balconies
- Rooftop plant rooms
- General horizontal surface exposed to weather and foot traffic

FEATURES AND BENEFITS

- Class II membrane in accordance with AS 4654.1
- Non shrinking and flexible
- Resistant to fungi and algae growth
- Solvent free, non-hazardous
- Excellent weathering properties
- Excellent adhesion to substrates
- Foot trafficable
- Provides a slip resistant surface, no broadcasting of aggregates required
- Easy to clean and maintain

APPLICATION PROCEDURE

Substrates

WPA TuffCote is suitable for application onto masonry or concrete substrates, as well as WPA 230UV and WPA 200 waterproofing membrane systems

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

Preparation

All surfaces to be coated 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.

New concrete must be cured for a minimum of 28 days.

Render and cement screeds must be cured for a minimum of 7days.

CodeMark Australia | CMI Certification Certificate CM40318

WPA TuffCoat 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 Tuffcote 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. Damp substrates with a RH of <75% must be primed with WPA 460 two-part epoxy primer. Substrates with an RH >75% must be be primed with 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 TuffCote.

When being applied directly onto WPA 230UV or WPA 200 waterproofing membrane systems, priming is not required. Ensure WPA 230UV and WPA 200 has been applied in accordance with the application instructions, has fully cured and any surface contamination has been removed.

Application

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

Prior to application, stir the contents thoroughly.

Standalone Membrane:

- Using a brush, roller or squeegee, apply the first coat of WPA TuffCote after the primer has sufficiently dried. Apply an even and consistent coat of approximately 0.60mm wet film thickness.
- Once the first coat has dried, apply a second coat of WPA TuffCoat at right angles to the first coat. Apply an even and consistent coat of approximately 0.60mm wet film thickness.
- WPA TuffCoat 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

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thickness gauge at regular intervals during installation.

Top Coat:

- Using a brush, roller or squeegee, apply the first coat of WPA TuffCote. Apply an even and consistent coat of approximately 0.30mm wet film thickness.
- Once the first coat has dried, apply a second coat of WPA TuffCote at right angles to the first coat. Apply an even and consistent coat of approximately 0.30mm wet film thickness. WPA TuffCote must be applied with a minimum of two coats to achieve a dry film thickness of not less than 0.50mm (500 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 4-6 hours between coats
- Allow 7 days to fully cure.
- Allow longer drying times in cool, damp or higher humidity conditions

Wet Form

- VOC 5.0grams/litre
- Appearance ..... Light Grey or Slate Grey
- Specific Gravity 1.55kg/L

Cured Membrane

- Tensile Strength .....2.2N/mm^2
- Accelerated Weathering .....No changes after 500 hours (Xenon Arc method)
- Shore A Hardness 92
- Slip Resistance R10

Note: The slip resistance value stated above is based on laboratory samples. The on-site slip resistance is dependent on application methodology and substrate surface profile. In situ confirmation of slip resistance is advised.

LIMITATIONS

Do not apply **WPA TuffCote**:

- Over damp, wet or contaminated substrates
- If it is raining or if rain is imminent
- Directly over any existing coatings other than WPA 230UV or WPA 200
- As a high wear surface for vehicle traffic
- Where ambient or surface temperatures are below 5°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

Clean Up

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

Packaging

WPA TuffCote is available in 15 litre pails.

Coverage

- Stand-alone Membrane - 1.2 litres per M^2 at 1.0mm dry film thickness (12.5M^2 per drum)
- Top Coat - 0.6 litres per M^2 at 0.5mm dry film thickness (25M^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 TuffCote 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	
Product	WPA TuffCote
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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