



WPU100 WATERPROOFING MEMBRANE

DESCRIPTION

WPU100 is a UV Stable, single pack, water based polyurethane modified Class 3 membrane coating designed to be used as an AS4858 compliant waterproofing membrane for internal and external use.

WPU200 is also available as a fiber reinforced membrane.

RECOMMENDED USES

- Wet areas (bathrooms, laundries)
- Shower recesses
- Balconies and deck areas
- Planter boxes
- Exposed roofs (not trafficable)

FEATURES AND BENEFITS

- CSIRO Certified Class III membrane (Report No: 8170)
- Water based.
- Low VOC (Green star compliant)
- UV stable
- No mixing
- Single pack
- Safe and easy to use.
- High resistance to detergents & bleach
- Permanent elasticity and flexibility
- Once cured, it will not re-emulsify.
- Brush, roller, or trowel applied.
- Excellent adhesion properties

SUITABLE SUBSTRATES

Concrete, Render, Screed, Bricks, Green Board, Plasterboard, PVC, Aluminum, Galvanised Iron, Colourbond.

SURFACE PREPARATION

Surfaces should be smooth, firm, dry and clean – free of oils, waxes, chemicals, and loose extraneous matter.

The surface must be kept dry until fully cured, so do not apply in an external environment if rain imminent as product can re-emulsified if wet before it is fully cured.

Metallic surfaces must be suitably primed and etched to ensure adhesion.

Masonry surfaces must be pointed flush and surface defects repaired.

Painted surfaces must be cleaned and lightly sanded and then suitably primed to ensure adhesion.

WPM is not designed to span gaps/cracks.

It can span minor static cracks approaching 1mm in width, though any visible cracking should be filling with a suitable polyurethane sealant.

Static cracks greater than 1mm must be suitable filled and repaired.

In substrates where dynamic cracking, significant shrinkage cracking, determined cracks or structural movement is expected, further technical advice will be required and as WPM may not be suitable, or may require further devices such as bond breakers or expansion systems.

Consult your technical representative for further information and advice when cracking is present or expected to be present in the project lifespan.

PRIMING

Primer is recommended for all applications and substrates.

Follow the respective instructions for the primers selected.

Consult your technical representative if you are not sure on the correct primer-membrane system or application protocol for your application.

Primers must be fully cured before commencing application of the membrane coatings.

CHEMICAL HOUSE

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SUBSTRATE	RECOMMENDED PRIMER	MINIMUM PRIMER COVERAGE
Dry surfaces: Brick, mature/cured concrete, dry render, screeds, plasterboard, fibre cement sheeting, plyboard. Concrete must be cured for min 28 days. Renders and screeds cured a minimum of 7 days.	Any WPM primer: WPM Nano Primer (WB); 2 Pack Prime (WB); or SolPrime (SB)	1L /10sqm
Metals: Aluminum, stainless steel, copper, brass, galvanized	EtchPrime; or WPM Nano Primer	1L /10sqm
Plastics: PVC	WPM Nano Primer	1L /10sqm
Damp surfaces, green (uncured) concrete, screeds, and renders	2-part epoxy primer	1L /10sqm

DIRECTIONS

Apply on the surface to be treated, in North-South direction, with a second coat East -West.

Dilution with water up to 10% is permitted for the 1st coat. Allow each coat to dry before applying another coat.

WPU100 can be applied on surfaces above 10C.

On surfaces at above 45C, it is anticipated that the rate of dry may be very rapid, leading to poor penetration and adhesion.

Conditions where the relative humidity is greater than 85%, combined with low substrate temperatures (less than 10C) or excessive wind chill, may lead to poor film formation, with consequential loss of adhesion.

COVERAGE

Floors – 1.5L per sqm (min 1mm DFT) – 10sqm per pail

Walls – 0.75L per sqm (min 0.5mm DFT) – 20sqm per pail

LIMITATIONS

Do not apply:

Over pooled water or water surfaces

Over contaminated surfaces

If it is raining or rain is imminent, and the membrane will be wet prior to fully curing.

As a primer for solvent based coatings

For negative pressure applications

Permanent immersion or tanking applications

Over Rising Damp

When the ambient temperature is below 10C or greater than 40C

If product has frozen at any point

CLEAN UP

Equipment should be cleaned up before drying with soap and water.

For removal after drying use BC40 Brush Cleaner or mechanical removal methods

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PROPERTIES

APPEARANCE	GREY viscous fluid
NVM	66% +/-1 (w/v)
VISCOSITY @20°C	300-400 cps @ 25C
WATER VAPOUR TRANSMISSION	1.85 g/m ² /24hr
FLEXIBILITY	Excellent
RESISTANCE TO AGEING	Excellent
LIGHT STABILITY	Excellent
ADHESION TO MASONRY SURFACES	Excellent
ELONGATION AT BREAK	>300%
SOLUBILITY IN WATER	Insoluble
WAC (WATER ABSORPTION COEFFICIENT)	<0.2
VOC	

SHELF LIFE

Unopened pails can be stored for up to 18 months in a cool dry environment.

Shelf life may be decreased if stored at elevated temperatures. Do not allow to freeze.

SAFETY

WPU100 is not considered toxic and has a very low odour. Wear suitable clothing, gloves, and eye protection when handling. Refer to Safety Data Sheet for detailed information.

FIRST AID

If swallowed do not induce vomiting. Give a glass of water. Seek medical advice.

If in eyes, hold eyes open, flood with water for at least 15 minutes and seek medical attention.

Refer to Safety Data Sheet for detailed information.

WARRANTY

Chemical House warrant this product for 10 years provided the application is in accordance with our written directions for use and the relevant Australian Standards have been followed.

The representations and recommendations regarding this product are based on tests which we believe to be reliable. However, no guarantee of their accuracy can be made due to the great range of field conditions and variations encountered in raw materials, manufacturing equipment and methods.

Thus, this product is sold with a limited warranty only, and on the condition that purchasers will carry out their own tests to determine the suitability of the product for their purposes.

Under no circumstances will Chemical House be liable to anyone except for replacement of the products or refund of the purchase price.

PACKS

15L Pail

COLORO WPU100 MEMBRANE - PDS March 2023

This Product Data Sheet (PDS) summarises our best knowledge of the product, including how to use and apply the product based on the information available at the time. You should read this PDS carefully and consider the information in the context of how the product will be used, including in conjunction with any other product and the type of surfaces to, and the manner in which, the product will be applied. Our responsibility for products sold is subject to our standard terms and conditions of sale. Chemical House does not accept any liability either directly or indirectly for any losses suffered in connection with the use or application of the product whether in accordance with any advice, specification, recommendation, or information given by it.

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