

PU WATERPROOFING

MEMBRANE

Hybrid PU liquid applied water proofing membrane

BONSAL PU WATERPROOFING

MEMBRANE is a single component PU waterproofing membrane manufactured from hybrid polymers to produce a strong ultra low VOC waterproofing membrane.

ADVANTAGES

- *Liquid applied, continuous and seamless*
- *Elastomeric*
- *Does not allow tracking*
- *Secure waterproof penetrations*
- *Can be used in congested areas*
- *UV Stable*
- *Easy to repair*
- *Does not contain tar*

USES

Waterproofing of: • Wet areas • Planters
• Plaza decks • Slab foundations • Terrace Waterproofing

INSTALLATION GUIDELINES

Bonsal PU Waterproofing should be applied by experienced waterproofing crews. Bonsal provides detailed method statements on all its products for use in various applications. These must be referred to prior to starting work. The information below is a summary for general waterproofing and is intended for guidance only. For special applications or waterproofing of critical areas contact Bonsal for guidance.

SURFACE PREPARATION

All concrete surfaces to be waterproofed, should be clean and free from any contamination or surface water. Remove any weak surface laitance. Treat any shrinkage cracks by applying a 1mm thick by 50mm wide strip of Bonsal PU water proofing membrane over the top of the crack. Treat any cracks likely to move by-routing out the crack and filling with Cement Mortar. Place debonding tape over the caulked crack and then apply a 1.5 mm thick by 50m wide strip over the top of the crack. When applying to green concrete ensure it is at least 24 hours

old and any curing compounds removed. Where the maximum bond is required pressure wash, surface retard or acid etch to provide a surface free of laitance.

PRIMING

Prime prepared surface using diluted Bonsal PU water proofing membrane with a ratio of 70:30 (Bonsal PU Water Proofing Membrane) mix thoroughly and apply until fully absorbed.

MIXING

Mix thoroughly with a low-speed drill and clean mixing blade for a minimum of 2 minutes. Mix slowly to minimize the vortex and to prevent trapping air in the product.

APPLICATION

Apply in one or two coats at a wet film thickness of 1.2 liter/m² , by brush, squeegee, phenolic core roller or airless spray. If applying a second coat then it must be applied within 24 hours at 25C. Once the product has fully cured, carry out a water flood test to check for leaks. In areas subject to high stress, such as 90 degree turns, provide a 45 degree cant and reinforce using Reinforcing Fabric. Use Bonsal PU Waterproofing membrane Composite Tape in areas that are subject to movement and where a cant cannot be provided.

CLEAN UP

Clean up using water. Cured material can only be removed by mechanical means.

LIMITATIONS

Do not apply in rain or wet conditions. Do not apply at temperatures below 5C. Do not add water except for priming. Protect from wear and abrasion. Avoid skin contact. Do not discard into the water system

HEALTH AND SAFETY

This product is for industrial use only by trained operatives. It is potentially hazardous if not used correctly. Please refer to the

Material Safety Data Sheet (MSDS) prior to the purchase and use of this product.

AUTHORIZED TECHNICAL SPECIALIST

Please note that only Bonsal Authorized Technical Specialists ('ATSs') are permitted to change any of the information in this data sheet or to provide written recommendations concerning the use of this product.

STANDARDS COMPLIANCE

ASTM C836 (Performance)
SCAQMD Rule 1113

LABORATORY TEST DATA

Property	Typical results
Hardness (ASTM D2240)	>70A
Tensile strength	>1.75MPa
Elongation	>400%
Tear Resistance (ASTM D624)	>16N/mm
Low Temp. Cracking Bridging (ASTM C1305)	3.2mm
Extensibility after Heat Ageing (ASTM C1522)	No sign of crack at 6.4mm
Addition in peel after water immersion (ASTM C794)	>70N
Adhesion Strength (ASTM D4541)	>0.90 MPa
Water Vapor Transmission (ASTM E96)	0.38 perms

APPLICATION PROPERTIES

Initial cure 12 hours at 25C and 50% RH
Final cure 5 days

VOLATILE ORGANIC CONTENT

VOC = <50 g/L

COLOUR

Grey

THEORETICAL COVERAGE

1.2 liter per m2 per coat (applied in two coats) Actual coverage will vary with surface profile.

PACKAGING

20 liter pail / 5 liter

SHELF LIFE

12 months when stored between 5 and 35C under shade in a dry environment.

DATASHEET VALIDITY

Bonsal makes modifications to its product datasheets on a continuous basis. Check the datasheet update section to ensure you have the latest version.

LIMITED WARRANTY Bonsal supplies products that comply with the properties shown on the current datasheets. In the unlikely event that products supplied are proved not to comply with these properties, then we will replace the non-compliant product or refund the purchase price. Bonsal does not warrant or guarantees the installation of the products as it does not have control over the installation or end use of the products. Any suspected defects must be reported to Bonsal in writing within five working days of being detected. Bonsal makes no warranty as to merchantability or fitness for a particular purpose and this warranty is in lieu of all other warranties express or implied. Bonsal shall not be liable for damages of any sort including remote or consequential damages, down time, or delay.



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