

SIMSHIELD SUB TILE X

UNDER TILE AND WET AREA WATERPROOFING MEMBRANE

DESCRIPTION

Simshield Sub Tile X is a fast cure single component SBR polymer waterproofing membrane, formulated for use in under tile and wet area applications. Simshield Sub Tile X is highly flexible and designed to accommodate structural movement.

ADVANTAGES

Simshield Sub Tile X delivers the following advantages:

- Permanently flexible.
- Excellent adhesion to a wide variety of substrates.
- Dries to a keyed finish to promote adhesion.
- Fast recoat and drying times.
- Suitable for use in conjunction with all cement based tile adhesives that conform to AS2358.
- Low VOC content

AREAS OF USE

Simshield Sub Tile X is suitable for use in the following areas:

- Shower Recesses
- Bathroom Floor Areas
- Laundries
- Kitchens
- Balconies
- Patios

SUBSTRATES

Simshield Sub Tile X is suitable for application on:

- Concrete, Cement, Render, Brick
- Concrete Blocks
- Wet Area Wall Lining Board
- Plasterboard, MDF
- Wet Area Gyprock
- Hardie/CSR Sheet Flooring
- Plywood Sheet Flooring
- Light Weight Aggregate Block
- Steel (suitably primed)



TESTING APPROVALS AND STANDARDS

- AS4858 Wet Area Membranes Class III.
- AS3740 Waterproofing of Wet Areas.
- AS4654 Waterproofing of External Above Ground Building Elements.
- AS4020 Products for use with Drinking Water.
- APAS 181 - V.O.C. limits.
- Green Star - Design & As Built v1.1: Indoor Pollutants, 13.1 Paints, Adhesives, Sealants and Carpets.

TECHNICAL DATA (@25°C)

Number of Coats:	2
Coverage: (per coat)	2m ² /L
Wet Film: (per coat)	500 microns (min)
Recoat:	1-2 hours
Tile/Screed/Overcoat:	Minimum 24 hours
Full Cure:	7 days
Colour:	Blue
Thinner/Clean Up:	Water
Shelf Life:	12 months



BLUE

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TEST DATA

Properties	Measurement /Standard	Test Results
Adhesion	AS1580.408.5	Concrete - 1.5N/mm ² Fibre Board - 2.0N/mm ² Plywood - 1.8N/mm ² Lightweight Block - 0.5N/mm ² Brick - 2.5N/mm ² Steel - 1.6-3.0N/mm ²
Water Vapour Transmission	ASTM E96	1 g/m ² /24 hours
Hardness	ASTM D2240	29A
Elongation	AS4858	317%
Flexibility	AS1580.402.1	2mm
VOC	SCAQMD 13 g/L 304-91	
Tensile Strength	AS4858 A1 (α)	1.65 MPa
Chemical Resistance	7 Day Immersion	Dilute Acids - Good Dilute Alkali - Good Salt Solutions - Good
Water Absorption	AS 3558.1	2.73%

SUBSTRATE PREPARATION AND PRIMING

- The surface should have a light even texture. Masonry should be flush pointed and all defects in existing surfaces made good.
- Surfaces must be clean, dry, sound and free from dust, grease, curing compounds, release agents, loose particles, efflorescence, concrete laitance or any other contaminants.
- All high points and protrusions should be removed, blow-holes and areas of honeycombing should be filled and the surface should be brought back to an even profile using a suitable repair mortar.

Note: Due to the wide variety of substrates available, adhesion testing is recommended in a trial area before full application.

- For maximum membrane adhesion, priming with Simseal® Mega Prime is recommended.
- Substrates that are porous and/or slightly dusty should be primed with a 1:1 dilution of Simshield Sub Tile X and water.
- This product may be applied to thoroughly clean, dry and dust free surfaces, without priming.
- If the substrate is not dry, use a two-part epoxy primer that acts as a moisture barrier and strengthens the surface before applying the waterproofing membrane.
- If a puddle flange is installed in a drainage outlet (recommended), ensure it is rebated into the floor substrate to create a flush finish.

APPLICATION CONDITIONS

- Substrate must be dry, with less than 15% moisture content. The use of suitable moisture meter is recommended.
- Application temperature between 7°C - 35°C.
- Do not apply if relative humidity is above 85% during initial cure phases, or if rain is expected before cure.

Note: In humid conditions, air flow should be maximised with the use of fans to assist cure.

APPLICATION

- Apply Simflex Hybrid PU or Bond Breaking Sealant to internal angles/corners (wall & floor junction) and vertical angles/corners (wall & wall junction) as per standard.
- Apply Simshield Sub Tile X with brush, roller or similar.
- Apply first coat of Simshield Sub Tile X as per recommended coverage rate. Work from corners to central areas and allow to dry.
- If only a bond-breaking sealant has been applied, install a non-woven, rot-proof reinforcing fabric in all joints and corners, applying it with the first coat of Simshield Sub Tile X.
- Apply second coat of Simshield Sub Tile X as per recommended coverage rate, at 90 to the first coat.
- Allow to cure for a minimum of 24 hours, before the application of a screed or the commencement of tiling.
- If pond testing is required, allow to dry for a minimum 48 hours (depending on weather conditions) to ensure adequate curing. Pond test with water to a depth of 25mm for 2 hours. After testing ensure area is drained and dried.

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CLEAN UP

- Uncured material may be removed with warm water and detergent.
- Cured material may be removed mechanically.
- Cured material may be softened by soaking in cleaner before attempting removal.

MAINTENANCE SCHEDULE AND REPAIR

- Simshield Sub Tile X must be protected from damage by after trades and inspected prior to the application of any over coat.
- Moisture blisters and bubbles may be repaired by cutting out the affected area, allowing substrate to properly dry and reapplication of membrane as per recommended coverage rates.
- Protect membrane from harsh chemicals, abrasion and other potentially damaging conditions.

PRECAUTIONS

- Do not apply if the temperature is below 7°C or relative humidity is above 85% or if rain is imminent.
- Do not apply Simshield Sub Tile X to wet substrates.
- The moisture content of the surface should be less than 15%. Check with a moisture meter if unsure.
- Ensure adequate ventilation and air flow to optimise membrane curing.
- Simshield Sub Tile X is not designed for long-term UV exposure.

WARRANTIES

A standard warranty period of 10 years is offered for Simshield Sub Tile X.

Extended warranties are available for project specific applications. Please contact your Simseal® representative, or the Simseal® technical support team for detailed specifications applicable to your project and warranty requirements.

TRANSPORT AND STORAGE

- Size: 15L
- Weight: 20.5kg
- DG Class: N/A
- Flash Point: N/A
- UN Number: N/A
- Cool and Dry Storage

SAFETY AND FIRST AID

Simshield Sub Tile X Safety Data Sheet is available in our webpage www.simseal.com.au.

Safety

- Ensure good ventilation and avoid breathing vapours.
- Avoid skin and eye contact. Wear gloves and eye protection. Remove splashes on skin immediately and remove contaminated clothing.
- Keep out of reach of children.
- Do not swallow.

First Aid

- If poisoning occurs, contact a doctor or poisons information centre: Ph. 13 11 26.
- If swallowed, do not induce vomiting. Give a glass of water to drink.
- If in eyes, hold eyes open and flood with water for at least 15 minutes. If not breathing, apply artificial respiration.

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