

Flexitray 102

Under tile and wet area waterproofing membrane.

DESCRIPTION

Flexitray 102 is a waterborne flexible SBR waterproofing membrane, formulated for use in under tile and wet area applications. Flexitray 102 is highly flexible and designed to accommodate structural movement.

Flexitray 102 is a class III membrane that complies with AS 4858 and AS 3740 requirements, and is suitable for use with all cement-based tile adhesives that comply with AS2358 & AS4992.1 – including class C2S1 and C2S2.

Flexitray 102 is designed for use with Flexitray Hybrid MS Polyurethane Sealant and Flexitray Reinforcing Fabric for a premium bond-breaking and a reinforced membrane system.

ADVANTAGES

Flexitray 102 delivers the following advantages;

- Premium long term performance and permanent flexibility.
- Seamless application for leak free performance.
- Excellent adhesion to a wide variety of substrates.
- Dries to a keyed finish to promote direct tile adhesion with cement based tile adhesives.
- Fast recoat and drying times.
- Low VOC content – safe & easy to use.
- No priming required.

AREAS OF USE

Flexitray 102 is suitable for use in the following areas;

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

SUBSTRATES

Flexitray 102 is suitable for application on;

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

TESTING APPROVALS AND STANDARDS

Flexitray 102 is assessed by CSIRO;

- CSIRO Technical Assessment No. 337 – satisfying requirements of AS 3740 “Waterproofing of Wet Areas”
- CSIRO Compliance Assessment Report 3877 – AS 4858:204 “Waterproofing of Wet Areas”

Flexitray 102 is compliant with the following 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.

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TECHNICAL DATA (@ 25°C)

Number of Coats:	2
Coverage: (per coat)	2m ² /L
Wet Film: (per coat)	500 microns
Recoat:	2 – 4 hours
Tile/Screed/Overcoat:	Minimum 24 hours
Full Cure:	7 days
Thinner/Clean Up:	Water
Shelf Life:	12 months

ANCILLARY PRODUCTS

- Flexitray Hybrid MS Polyurethane Sealant
- Flexitray Reinforcing Fabric

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	1g/m ² /24 hours
Hardness	ASTM D2240	29A
Elongation	AS4858	317%
Flexibility	AS1580.402.1	2mm
VOC	SCAQMD 304-91	13 g/L
Tensile Strength	AS4858 A1(a)	1.6-1.9 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

Full substrate preparation instructions can be found at www.crommelin.com.au/full-instructions/

- 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.

- Flexitray 102 may be applied to thoroughly clean, dry and dust free surfaces, without priming.
- Substrates that are porous and/or slightly dusty should be primed with a 1:1 dilution of Flexitray 102 and water.
- For maximum membrane adhesion, priming with Crommelin® Powerflex® is recommended.
- If substrate is not dry, prime surface with Crommelin® WB2K®.
- 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.

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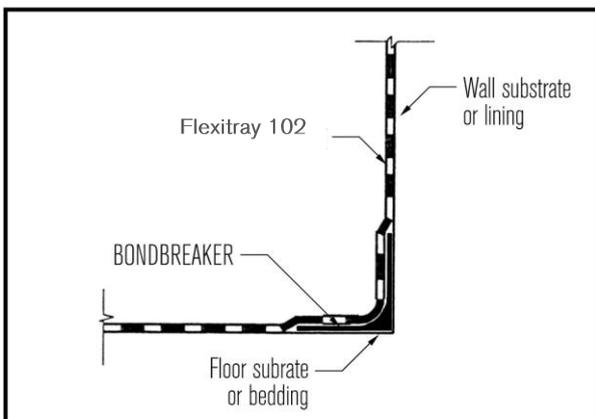
Under tile and wet area waterproofing membrane.

APPLICATION

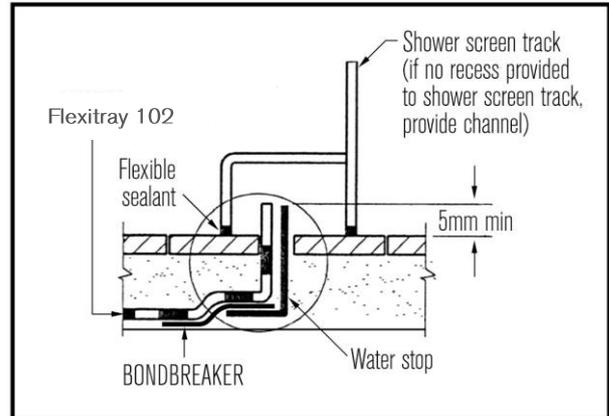
Full application instructions can be found at www.crommelin.com.au/full-instructions/

- Apply Flexitray Hybrid MS Polyurethane Sealant as a bond breaking sealant to internal angles/corners (wall & floor junction) and vertical angles/corners (wall & wall junction) as per standard.
- Install Flexitray Reinforcing Fabric to all joints and corners in conjunction with first coat of Flexitray 102.
- Apply Flexitray 102 with a brush or roller.
- Apply first coat of Flexitray 102 as per recommended coverage rate. Work from corners to central areas and allow to dry.
- Apply second coat of Flexitray 102 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.

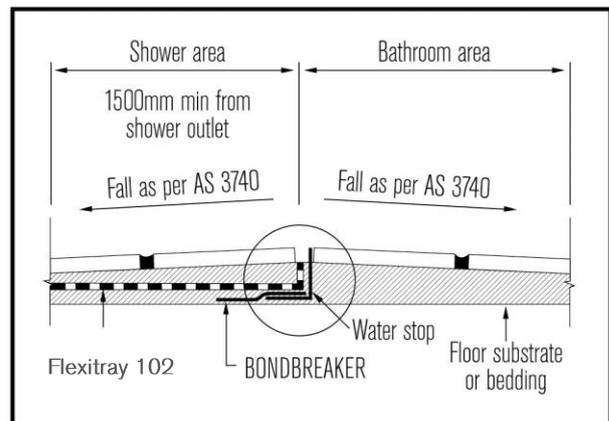
TECHNICAL DRAWINGS



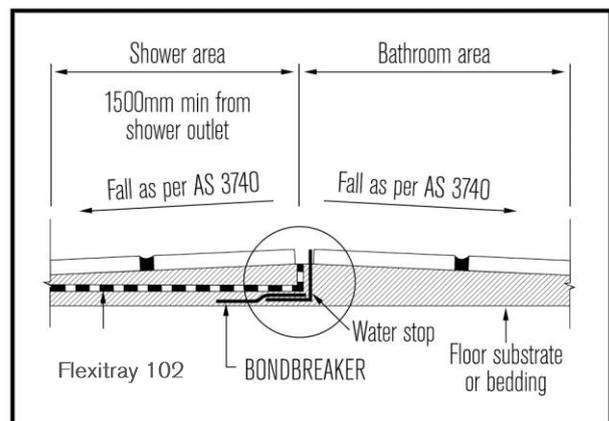
TYPICAL BOND BREAKER DETAIL



TYPICAL HOBLESS CONSTRUCTION



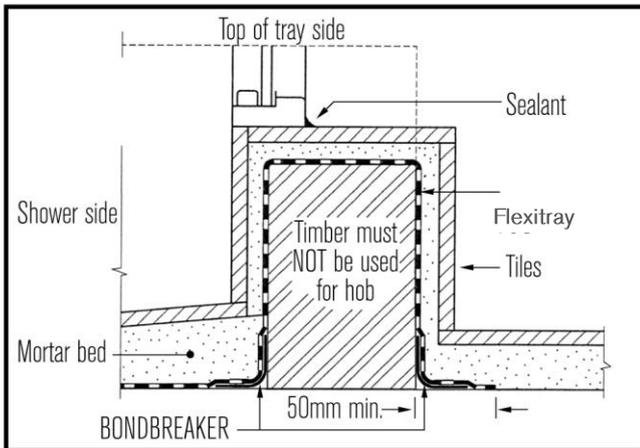
TYPICAL TERMINATION OF MEMBRANE FOR UNENCLOSED SHOWERS



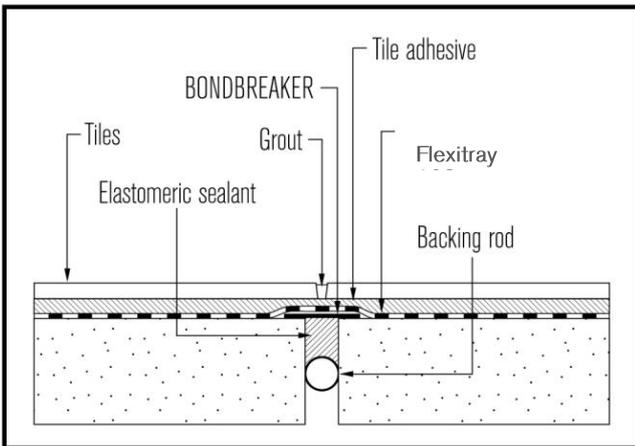
TYPICAL TERMINATION OF MEMBRANE FOR UNENCLOSED SHOWERS

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**TYPICAL HOB CONSTRUCTION
INTERNAL MEMBRANE**



**TYPICAL CONSTRUCTION OVER
EXPANSION OR CONSTRUCTION JOINTS**

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 Crommelin® HD Cleaner before attempting removal.

MAINTENANCE SCHEDULE AND REPAIR

- Flexitray 102 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 Flexitray 102 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.
- Flexitray 102 is not designed for long-term UV exposure.

TRANSPORT AND STORAGE

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

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SAFETY AND FIRST AID

Flexitray 102® Safety Data Sheet is available from Crommelin® upon request.

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.
- Keep container sealed when not in use.
- 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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Customers need to undertake their own assessment to determine the suitability of a product for the intended use. As the performance of any product is subject to a wide variety of different surface types as well as environmental and surface-specific conditions, it is essential that a sample of the product be applied to the intended area of use to ensure it is acceptable in appearance and finish and that it performs as required on the specific surface.

Crommelin® also reserves the right to update information without prior notice, to reflect ongoing research and product development.
