

DN-50

LIQUID RUBBER MEMBRANE

Description

Danlaid DN-50 is a single part liquid rubber membrane designed for waterproofing wet areas, showers, laundries, roofs, terraces, balconies and decks that will be covered over with toppings and/or tile beds. Compliant to AS/NZS 4858:2004, Danlaid DN-50 holds CSIRO Technical Assessment No. 349, (Gripset 38 membrane) satisfying the requirements of AS3740 "Waterproofing Wet Areas in Residential Buildings". Developed by advanced polymer technology Danlaid DN-50 is flexible and elastomeric, displaying outstanding waterproofing features with low water vapour transmission properties and the ability to withstand permanently wet conditions without re-emulsification of the cured membrane. Another key feature of the Danlaid DN-50 membrane when cured is the compatible bonding surface for a variety of toppings, renders, tiles and screeds to adhere without concerns of incompatibility or de-bonding.

Features & benefits

- Water based, free of solvents, non toxic and non flammable
- Waterproof with ability to withstand continuously wet environments and ponding
- Flexible & Elastomeric, accommodating normal building substrate movement
- Compatible with tile finishes and other surface toppings
- Durable and tough seamless finish
- Excellent vapour barrier with low water vapour transmission properties
- Can be applied by brush, roller, or spray unit on horizontal and vertical surfaces
- Low odour and free of dangerous fumes in warm and/or confined areas

Application

Danlaid DN-50 is suitable for commercial, industrial and residential applications.

Waterproofing uses

- Internal wet areas, bathrooms, laundries and tiled areas
- Balconies, decks, podiums, terrace floors
- General tiled areas to prevent moisture ingress

Substrates

Substrates suitable for bonding Danlaid DN-50 over include:

- Concrete, render and masonry
- Fibre cement sheeting, plasterboard and structural sheeting
- Wet area timber sheeting and external grade plywood
- Aerated concrete panels and blocks

For further information on suitable surfaces and substrates contact technical department of Danlaid Contracting for correct advice on surface preparation and suitability.



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Surface preparation

Surfaces must be prepared thoroughly before commencing application. All substrates must be structurally sound, stable, dry, and clean, with substrate compressive strength a minimum 25MPa and cohesive strength a minimum 1.5MPa. Rough surfaces are to be evened or filled first (refer to Gripset 11Y). Building surfaces must be constructed to manufacturer's recommendations and relevant building standards in force at time of membrane application. All surfaces are to be free of sharp protruding surfaces, loose material, de-bonded coatings, curing membranes/agents, release agents, wax residues, foreign particles, laitance, algae and moss, grime, oils, animal fats or grease remains.

Structurally unsound layers and surface contaminants are to be mechanically removed by abrasive blasting, blast tracking, grinding or equivalent methods. For thorough surface preparation, refer to Gripset SC (algae and moss remover) and Gripset DG (water based oil degreaser) products.

Priming

Danlaid membranes must be applied onto primed surfaces;

- Gripset GP primer – for general building surfaces. Brush or roller apply to total surface area at a minimum coverage of 1 litre/5m² and allow 30 minutes drying or once wet film dries clear.
- Gripset P10 primer – for surfaces with residual or rising damp. Apply by brush or roller in 2 coats at a minimum coverage of 1 litre per 3m²; ensuring subsequent coat is applied in opposite direction to the first coat. Allow to dry for a minimum 6 hours before applying membrane. Primer must be tack free before applying membrane.

Refer to data sheets for above primers before using

Detailing

All critical areas such as joints, junctions, movement zones, penetrations and drainage points are to be correctly sealed and detailed prior to membrane application.

Voids, gaps and undulating surfaces:	Filled and evened with Gripset 11Y repair mortar compound.
Cracks up to 1mm:	Filled with Gripset SB flexible sealant
Cracks >1mm:	Filled Gripset SB flexible sealant, followed by Elastoproof Joint Band.
Bond Breaker:	Elastoproof Joint Band to wall/floor junctions and wall/wall junctions
Movement or Expansion Joints:	Elastoproof Joint Band and prefabricated Joint Sections
Penetrations, Pipes, Drain outlets:	Elastoproof Collars to be used



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Membrane application

General

The application of Danlaid DN-50 must comply with AS3740. Product is to be applied in a minimum of 2 coats at a total minimum coverage of 1.5 litres/m²; forming a minimum dried film thickness of approximately 1.2mm. Apply subsequent coats at different directions to the previous coat. Coverage is dependent upon surface condition and will vary accordingly as uneven and porous surfaces will require greater coverage to achieve the specified film thickness. Product can be applied by roller or brush.

Installing Elastoproof Bond breaker Joint Band

Measure and cut Elastoproof Joint Band for all wall/floor junction areas. Apply first coat of Danlaid DN-50 membrane to approximately 150mm extending up walls and on to floors, and embed Elastoproof Joint Band into wet bed of liquid membrane, ensuring fabric edges are fully wet out and no air bubbles exist behind the fabric. Rear rubber section of Elastoproof Joint Band is not bonded to substrates. At sections where Joint Band is to be joined, a minimum 50mm overlap is required. Elastoproof Prefabricated Corners are available for both internal (90o) and external (270o) junctions, enabling Joint Band to overlap and avoid joint at critical areas. If Prefabricated corners are not used, Elastoproof Joint Band is to have bottom leg cut and folded; ensuring fabric is completely bonded with Danlaid DN-50 membrane.

For floor pipes protruding floors, Elastoproof Collars are to be fitted over the neck of the pipe, embedding fabric edges into wet bed of Danlaid DN-50 membrane. For floor wastes that are finished level with the floor, Elastoproof Inverted Collars are to be fitted or alternatively the Danlaid DN-50 membrane with Gripset RF Fabric embedded is to be dressed down into the waste outlet at a minimum 50mm.

Once Elastoproof Joint Band is in place, apply Danlaid DN-50 membrane to the total floor area and to walls at 150mm high in general wet areas and balcony decks, and at 1.8m high in shower alcoves. A continuous seamless membrane should be the final finish to the total area upon completion of the waterproofing membrane application.

Tiling & Surface Toppings

- It is recommended when tiling directly over Danlaid DN-50 in internal and external floor areas, that Gripset C-Flex, Gripset C-Bond or Gripset C-Set tile adhesives be used
- If applying a screed, render or concrete topping over Danlaid DN-50 it is recommended to incorporate Gripset 11Y as a proprietary bonding agent and water resistant additive
- For use of other adhesives over Danlaid DN-50 contact the technical department of Gripset Industries for detail of compatibility
- Pre mixed tile adhesives are not recommended to be used over Danlaid DN-50
- Drying time before tiling is 24 hours in normal ambient temperature of 23oC (50% RH). This may be prolonged in cool or humid conditions

Note: All tiling is to be carried out to AS3958.1 "A Guide To The Installation of Ceramic Tiles"

Storage conditions

- Best stored at room temperature
- Avoid cold freezing conditions and off concrete floors
- Do not store in direct sunlight
- Shelf life is 12 months in original unopened container



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Precautions

- Not to be used as a trafficable surface or exposed membrane
- Do not apply to areas when rain is imminent
- Do not apply when surface temperature is below 5oC or above 35oC
- Not to be applied over glass or glazed surfaces
- Not designed as a sealant for expansion or control joints
- Not to be used in areas where solvent or petroleum based products may be spilled
- Not to be used in areas subject to negative hydrostatic pressure
- All finish coatings over this membrane must be water based and solvent free
- Material Safety Data sheet (MSDS) available
- For further information about this product contact technical department of Danlaid Contracting

Packaging

- 20 litre pails

Clean up

- In water while wet
- Once dried product needs to be removed mechanically

Technical data

Appearance	Wet and dry film – blue
Form	Viscous paste
Drying Based on normal ambient conditions of 20oC * Temperature, humidity and porosity will vary dry times	Tack free: 1-2 hours
	Re-coat: 4 hours
	Dry film: 24 hours
	Tiling or toppings over: 24-48 hours
Specific gravity	1.46kg/litre
Shore A Hardness (ASTM D2240-97)	65
Solids Content	80%
Potable Water (AS/NZS 4020 -1999)	Passed – exposure of 7600mm2/litre



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Durability Test Results to AS/NZS 4858-2004:

Elongation4	480%
Classification	Class III
Tensile Strength	1.09Mpa
Water Immersion Test - 56 Days	PASS
Bleach Immersion Test - 56 Days	PASS
Detergent Immersion Test - 56 Days	PASS
Heat Ageing	PASS
Cyclic Movement Test	PASS
Water Absorption Test	1.82%
Vapour Transmission Test	0.14g/24h/m2

Statements made in this bulletin are for the assistance of our customers. They are based on our experience and judgment but must not be regarded as amounting to a legal warranty or as involving any liability on our part.

for further information please contact:

DANLAID CONTRACTING

43 De Havilland Rd
Mordialloc, VIC, 3195
Ph: (03) 8514 6300
Fax: (03) 8514 6310

email: sales@danlaid.com.au
web: www.danlaid.com.au



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