

DN-80

WEATHERPROOF LIQUID MEMBRANE

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Description

Danlaid DN-80 is an elastomeric acrylic membrane designed for use over exterior substrates for long term protection against UV degradation and harsh climatic conditions. Danlaid DN-80 is suitable for exposed areas, facades, parapets walls, graded light trafficable floors, box gutters and roof surfaces.

Features & benefits

- Water based, free of solvents, non toxic and non flammable.
- Weatherproof coating able to withstand extreme climatic conditions (cold and hot temperatures).
- Elastomeric and flexible. Ability to bridge cracks up to 3mm.
- Resistant to fungi and algae growth, particularly in humid and tropical conditions.
- Resistant to salt and carbon attack.
- Durable and tough. Tensile strength can be enhanced by incorporating Gripset RF Fabric.
- Can be sand cast or enhanced with sand for non-slip flooring.
- Compatible with other Danlaid membranes.
- Available in different colours. (Standard Colour - Grey)

Application

Danlaid DN-80 is suitable for commercial, industrial and residential applications.

Waterproofing uses

- Roofs (new & existing) and decks.
- Podiums.
- Parapet walls.
- Exterior protective coating for high build roof systems (used over other Danlaid membranes).
- Box gutters.
- Vertical walls, facades and silos.
- Plant floors and external areas.
- General surfaces exposed to weather

Substrates

Substrates suitable for bonding Danlaid DN-80 over include:

- Concrete, render and masonry.
- Fibre cement, plaster board and structural sheeting.
- Wet area timber sheeting.
- Clay and concrete blocks/bricks.
- Asbestos.
- Asphalt.
- Treated metals (not raw steel).
- Other Danlaid membranes.

Before using over existing paints, membranes, coatings or other surface finishes 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:

- Danlaid GP-100 primer – for general porous building surfaces.
- Gripset 11Y slurry/primer - for immersed areas, extremely porous surfaces, asphalt/bitumen, non porous and existing surfaces (non porous and existing surface suitability to be checked with Danlaid Technical services before commencing).
- Gripset P10 primer – for surfaces with residual or rising damp (refer to product data).

Note: 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 and gaps:	Filled with either Gripset GP enhanced mortar or Gripset 11Y & Gripset DM mortar repair compound. These products are also recommended for forming waterproof fillet.
Cracks <1mm:	Filled with Gripset EF or Gripset SB, followed by Gripset RF reinforcement.
Cracks >1mm:	Filled with Gripset EF or Gripset SB, followed by Elastoproof sealing system.
Bond Breaker:	Elastoproof Joint Band and corners (N or B grade) for junction detailing.
Movement or Expansion Joints:	Elastoproof Joint Band to be used. (Refer to Elastoproof brochure for selection of correct grade).
Penetrations, Pipes, Drain outlets:	Elastoproof Collars to be used. (Refer to Elastoproof brochure for available sizes).



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Coverage & application

- For roofs, floors and general horizontal surfaces – product is to be applied at a total minimum coverage of 1.5 litres/m², forming a dried film thickness of approximately 1.2mm
- For facades and vertical surfaces – product is to be applied at a coverage rate of 0.8-1.0 litre/m².

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, brush or spray unit.

External non-slip floors

If using Danlaid DN-80 in exterior floor areas a non slip floor can be formed by either:

- a) adding a fine wash sand to the liquid membrane, or
- b) sand casting the applied liquid membrane;

the following steps must be followed:

- Ensure the waterproofing application is complete and dried before forming non slip floor.
- Best results achieved using fine wash or silica grade sands.
- If adding sand to Danlaid DN-80 – sand can be added at 40% to the volume of membrane, e.g. 8 litres of sand added to 20 litres of Danlaid DN-80. Slowly add sand to liquid membrane and stir contents at a low speed until sand is evenly suspended through the liquid. Apply product using a medium nap or light textured roller (depending on desired finish). If required a 2nd coat can be applied.

- If sand casting – it is important to cast sand into a wet coat of the membrane, ensuring 100% coverage. Allow a minimum 24 hours drying before removing all loose sand (in cool or humid conditions this may take longer), taking care that sand is bonded and settled into the membrane coat. To be finished over with a top coat of Danlaid DN-80 diluted with 20% of water.

Note: Suitable for foot traffic areas only in non commercial applications. It is also recommended to trial a small test area before commencing application

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

- Do not apply to areas subject to heavy foot traffic in commercial environments or vehicular traffic.
- Do not apply to areas when rain is imminent.
- Do not apply when surface temperature is below 5oC or above 35oC.
- Do not use in areas subject to rising damp or negative hydrostatic pressure.
- Roofs and floor surfaces should have adequate falls before coating with Danlaid DN-80.
- Not to be applied over glass or glazed surfaces.
- Not recommended for marine applications.
- Not recommended for areas subject to chemical spillage or containment.
- Material Safety Data sheet (MSDS) available.
- Contact Danlaid Contracting head office before applying over existing coatings, membranes etc. for surface preparation details.

Packaging

- Danlaid DN-80 is packed in 20 litre plastic pails.

Clean up

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

Technical data

Appearance	Standard – Grey, Beige & White (Other colours available to specification)
Form	Viscous liquid
Drying - Based on normal ambient conditions of 20°C * Temperature, humidity and porosity will vary dry times	Tack free: 1-2 hours
	Re-coat: 4 hours
	Dry film: 24 hours
	Weatherproof (vertical): 24 hours
	(horizontal): 72 hours
Specific gravity	1.15kg/litre
Shore A Hardness (ASTM D2240-97)	57
Tensile Strength (AAS1145-1989)	2.6 MPa
After UV exposure (AS2433-1994)	3.0 MPa
Elongation (AS1145-1989)	432%
After UV exposure (AS2433-1994)	476%
Accelerated Weathering (SAEJ1960-June'89) (1,000 hours Arc tests)	No changes to physical appearance or properties

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

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