



Weatherproof liquid membrane

Description

Gripset RD is an elastomeric acrylic membrane designed for use over exterior substrates for long term protection against UV degradation and harsh climatic conditions. Gripset RD 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 Gripset membranes.
- Available in different colours.

Application

Gripset RD 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 Gripset membranes).
- Box gutters.
- Vertical walls, facades and silos.
- Plant floors and external areas.
- General surfaces exposed to weather

Substrates

Substrates suitable for bonding Gripset RD 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 Gripset membranes.

Before using over existing paints, membranes, coatings or other surface finishes contact technical department of Gripset Industries for correct advice on surface preparation and suitability.

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

Gripset membranes must be applied onto primed surfaces:

- Gripset GP 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 Gripset 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



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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. <i>These products are also recommended for forming waterproof fillet.</i>
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).

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 Gripset RD in exterior floor areas a non slip floor can be formed by either:

- adding a fine wash sand to the liquid membrane, or
- 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 Gripset RD – sand can be added at 40% to the volume of membrane, e.g. 8 litres of sand added to 20 litres of Gripset RD. 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 Gripset RD 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.

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 5°C or above 35°C.
- Do not use in areas subject to rising damp or negative hydrostatic pressure.
- Roofs and floor surfaces should have adequate falls before coating with Gripset RD.
- 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 Gripset Industries head office before applying over existing coatings, membranes etc. for surface preparation details.

Packaging

- 5 litre and 15 litre oval pails; 200 litre drums



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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 <i>Based on normal ambient conditions of 20°C</i> <i>* Temperature, humidity and porosity will vary dry times</i>	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

Contact details

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Product disclaimer

This Product Data Sheet (PDS) summarises our best knowledge of the product, including how to use and apply the product based on the information available at the time. You should read this PDS carefully and consider the information in the context of how the product will be used, including in conjunction with any other product and the type of surfaces to, and the manner in which, the product will be applied. Our responsibility for products sold is subject to our standard terms and conditions of sale. Gripset Industries does not accept any liability either directly or indirectly for any losses suffered in connection with the use or application of the product whether or not in accordance with any advice, specification, recommendation or information given by it.