

WEATHERPROOF LIQUID MEMBRANE

www.gripset.com

TECHNICAL DATA SHEET

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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.
- * Compatible with other Gripset membranes.
- * Available in different colours.

Application

- * Gripset RD is suitable for commercial, industrial and residential applications.

Waterproofing Uses

- * Metal and concrete roofs (new & existing)
- * Parapet walls.
- * Exterior protective coating for high build roof systems (used over other Gripset membranes in low traffic areas).
- * Box gutters.
- * Vertical walls, facades and silos.
- * 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. Smooth shiny surfaces to be roughened or etched. 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 GP primer – for general vertical and horizontal building surfaces. Brush or roller apply primer to total surface area at a minimum coverage of 1 litre per 6m² and allow drying for 30 minutes or once wet film dries to a clear transparent coating.

Gripset OP Primer – for metal and non porous surfaces. Brush or roller apply primer to total surface area at a minimum coverage of 1 litre per 12m² and allow to dry for 1 hour

Gripset 11Y slurry – Gripset 11Y slurry/primer – asphalt/bitumen and existing surfaces (suitability to be checked with Gripset Technical Services) Mix Gripset 11Y in equal volumes to the following ratios: 1 part Gripset 11Y + 1 part Portland cement + 1 part fine wash sand, mix to form homogenous slurry. Brush apply to substrate at coverage of 1 litre per 3m²

Gripset P10 primer – for surfaces with residual or rising damp (refer to product data). 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 24 hours before applying membrane. Primer must be tack free before applying membrane.

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

Membrane 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.

Storage conditions

- * Best stored at room temperature.
- * Avoid cold freezing conditions and off concrete floors.
- * Do not store in direct sunlight.
- * Shelf life: Liquid component is 12 months; powder component is 6 months in original unopened packaging.

Packaging

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

Precautions

- * Not to be used in high traffic areas
- * Do not apply to areas when rain is imminent
- * Do not apply when surface temperature is below 5°C or above 30°C
- * 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
- * Allow 10 days drying after final application if treated area is to be flood tested
- * Material Safety Data sheet (**MSDS**) available
- * For further information contact technical department of Gripset Industries

Clean up

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

Technical Data

Appearance	Standard - grey, beige & white
Form	Viscous Liquid
Drying	Tack Free: 1-2 hours Re-coat: 4 hours Dry film – 24 hours
Based on normal ambient temperatures of 20°C	Weatherproof (vertical): 24 hours (horizontal): 72 hours
*Temperature, humidity and porosity will vary dry times	
Specific gravity	1.15kg/litre
Shore A hardness (ASTM D2240-97)	57
Tensile Strength	2.6MPa
After UV exposure	3.0MPa
Elongation	432%
After UV Exposure	476%
Accelerated Weathering (1000 hours Arc tests)	No changes to physical appearance or properties

Notes

It is recommended before commencing the application; that adhesion of products to be used (e.g. primers, membranes, coatings adhesives etc) is tested over a typical area of the prepared surface to ensure satisfactory adhesion. It is the responsibility of the applicator to carry this out and accept the substrate suitability before any application starts. Gripset Industries offers a service for pre testing adhesion to surfaces for large commercial areas or unusual substrates. For further details contact Gripset Industries.

Details contained in product data sheets are general. For any situation or items not covered in this data sheet, it is the responsibility of the applicator to check with Gripset Technical Services before commencing the application. A written confirmation will then be issued by Gripset Technical Services.

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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.