

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.
- Can be tinted

Application

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

Waterproofing Uses

- Metal and pitched 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.
- 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, smooth, stable, dry, and clean.

Rough surfaces and voids to be evened or filled first and all brick/block surfaces to be pointed flush. (refer to Gripset 11Y for concrete/masonry repairs). All general surface defects to be repaired.

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 objects, 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.

Priming

Gripset RD membrane must be applied onto primed surfaces:

Xpress Primer H20 Plus - For concrete rooftop applications, green/damp concrete, screeds and mineral surfaces containing residual moisture

Gripset GP primer – for general porous 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 non porous, smooth and dense 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 – asphalt/bitumen surfaces and existing coatings. (suitability over existing coatings to be checked with Gripset Technical services before commencing) 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. Membrane is to be applied over primer slurry while primer is in a damp/wet state, i.e. "wet on wet" application

Gripset P10 or E60 primer – for surfaces with residual moisture or subject to rising damp. Refer to individual data sheets for specific coverage details. Allow respective primer to dry for a minimum 24 hours before applying membrane.

Note: Refer to data sheets for above primers before using

Detailing

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

Voids, gaps and undulating surfaces in concrete/masonry	Filled and evened with Gripset 11Y repair mortar compound
Voids, pinholes, sheet laps and flashing on metal surfaces	Elastoproof Butyl Waterproofing Tape
Static cracks up to 1mm:	Filled with Gripset SB, followed by Gripset RF reinforcement
Live cracks and cracks > 1mm:	Filled with Gripset SB 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
Penetrations, Pipes, Drain outlets:	Elastoproof Collars or Gripset SB with Gripset RF Reinforcement for pipes/penetrations, Butyl Squares over leak control flanges

Application and Coverage

- 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
- General horizontal surfaces 1 x 15litre pail will cover approx. 10m²
- For facades and vertical surfaces – product is to be applied at a coverage rate of 1.0 litre/m².
- For facades 1 x 15litre pail will cover approx. 15m²

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.

Stir prior to use.

Installing Elastoproof Bond Breaker Joint Band

Measure and cut Elastoproof Joint Band for all wall/floor junction areas. Apply first coat of Gripset RD membrane to extending 150mm 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 (90°C) and external (270°C) 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 Gripset RD membrane.

Sealing floor wastes and penetrations

For floor pipes protruding floors, Elastoproof Collars are to be fitted over the neck of the pipe, embedding fabric edges into wet bed of Gripset RD membrane. For sealing penetrations where Elastoproof product cannot be used, seal around base of penetration at abutment to substrate using Gripset SB sealant followed RF Fabric turned up the penetration and embedded into RD membrane.

For floor wastes that are finished level with the floor, the Gripset RD membrane with Gripset RF Fabric embedded is to be dressed down into the waste outlet at a minimum 50mm ensuring the perimeter of the pipe/substrate abutment is sealed.

For leak control flanges apply Gripset SB or compatible sealant around edges of flange at interface with floor substrate. Gripset RD membrane with Gripset RF Fabric embedded is to be applied over edges of flange at floor substrate abutment until total perimeter is sealed. Return RD membrane down into flange. For alternative sealing option see Elastoproof Butyl Squares.

When the detailing application has been completed apply Gripset RD membrane to the total floor area and wall areas as required. A continuous seamless membrane should be the final finish to the total area upon completion of the waterproofing membrane application.

Storage conditions

- Best stored at room temperature.
- Avoid cold freezing conditions and off concrete floors.
- Do not store in direct sunlight.
- Shelf life: 24 months in unopened container

Packaging

- 5 and 15 Litre pails

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
- Safety Data sheet (SDS) available
- For further information contact technical department of Gripset Industries

Clean up

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

TECHNICAL DATA

Appearance	White
Form	Viscious Liquid
Drying	Tack Free: 1-2 hours Re-coat: 4 hours Dry film – 24 hours Weatherproof (vertical): 24 hours (Horizontal): 72 hours
<i>Based on normal ambient temperatures of 23°C and 50% RH</i>	
<i>*Temperature, humidity and porosity curing will vary dry times</i>	
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.