

HEAT REJECTING WATERPROOF MEMBRANE

www.gripset.com

TECHNICAL DATA SHEET

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Description

Gripset IC is a unique waterproof membrane and thermal barrier designed for use on roof and wall substrates to reduce heat absorption into buildings, offering potential energy savings to building owners.

Gripset IC is a high build acrylic membrane that provides a flexible seamless finish that can withstand long term UV exposure and varying climatic conditions.

Features & Benefits

- * Water based, free of solvents, non toxic and non flammable.
- * Suitable for horizontal and vertical surfaces, when applied to specified thickness the cured film forms a seamless weatherproof membrane for exposed areas such as roofs, walls, facades etc.
- * Reflects solar heat and rejects it back to the atmosphere.
- * Elastomeric and flexible.
- * Resistant to fungi and algae growth, particularly in humid and tropical conditions.
- * Resistant to salt and carbon attack.
- * Durable and tough. Able to withstand light foot traffic.
- * Reflects noise and sound back to the originating source.
- * Cost effective method of reducing energy consumption in areas where usage of cooling systems and air conditioning is high.
- * Compatible with other Gripset membranes.

Application

- * Gripset IC is suitable for commercial, residential, industrial, transport and rural applications

Waterproofing Uses

- * New and existing roofs
- * Farming and animal sheds/storage
- * Silos
- * Facades
- * Refrigerated vehicles
- * Portable buildings, cabins, workshops & Shipping containers
- * Wineries
- * Warehouse and storage buildings
- * Structures requiring an effective barrier to thermal conduction

Substrates

Substrates suitable for bonding Gripset IC over include:

- * Concrete
- * Masonry
- * Fibre cement
- * Plaster board
- * Wet area timber sheeting
- * Clay and concrete blocks/bricks
- * Treated metals (not raw steel)
- * Asbestos
- * Gripset membranes/products

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 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 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

General

As a membrane system for trafficable concrete substrates areas exposed to weather, it is recommended Gripset 38 or Gripset 2P membrane be used directly over the substrate as the base membrane layer. Gripset IC is then to be applied over as the exposed trafficable coating. Refer to individual data sheets for application details.

All surfaces should always be a minimum of 2 coats, and it is recommended to apply a total minimum of 1.5litres/m², providing a dried film thickness of 1.5mm. Apply subsequent coats at different directions to the previous coat. Coverage is dependent upon surface condition and will vary accordingly as uneven surfaces will require greater coverage to achieve the specified film thickness. Improved heat rejecting and insulating properties can be achieved by applying a thicker coat than the minimum specification. Different application methods can be used, e.g. roller (medium/long nap), brush (long bristle), or spray unit.

Installing Elastoproof Bond Breaker Joint Band

Gripset Elastoproof products & RF Fabric are installed with Gripset 38, by embedding the fabric section into a wet liberal coat of the liquid membrane then covering the fabric with a top coat to ensure it is no longer visible. Before using these products refer to Elastoproof product data sheets to ensure correct usage and selection. Gripset RF Fabric and Elastoproof products provide the ultimate protection for critical areas against movement and potential membrane rupture and are to be used in detailing works of Gripset waterproofing applications

Measure and cut Elastoproof Joint Band for all wall/floor junction areas. Apply first coat of Gripset 38 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 (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 38 membrane.

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

- * 15 litre pails; 200 litre drums

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 to have adequate falls before coating
- * Not to be applied over glass or glazed surfaces.
- * Not recommended for marine applications.
- * Not recommended for areas subject to chemical spillage/containment.
- * Material Safety Data sheet (**MSDS**) available.
- * Contact Gripset Industries head office before applying over existing coatings, membranes etc. for surface preparation details.

Clean up

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

Technical Data

Appearance	White (Other colours are available to specification; however the standard colour provides the most effective heat rejecting properties)
Form	Opaque viscous liquid
Drying Based on normal ambient temperatures 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	1.25kg/litre
Shore A hardness (ASTM D2240-97)	66
Tensile Strength	1.55MPa
After UV exposure	1.72MPa
Elongation	240%
Hemispherical Solar Reflectance (ASTME903-96)	80%
Accelerated Weathering (1000 hours Arc tests)	No changes to physical appearance or properties

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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.