

EXTERNAL HARD WEARING MEMBRANE

www.gripset.com

TECHNICAL DATA SHEET

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Description

Gripset LS Roof Coat is durable, hard wearing roof membrane designed for external floor surfaces on pitched or flat roofs, podiums and balcony areas. Suitable for use with other Gripset membranes for permanent exposure to varying climatic conditions, UV light and foot traffic.

Features & Benefits

- * Solvent free and non hazardous
- * Non shrinking, flexible (not elastomeric)
- * Resistant to fungi and algae growth
- * Excellent weathering properties
- * Excellent adhesion to surfaces
- * Excellent ponding water resistance
- * Foot trafficable
- * Can be applied in high build film thickness for greater durability
- * Provides non slip surface, no sand casting or aggregate addition required

Application

- * Gripset LS Roof Coat is suitable for commercial, industrial and residential applications.

Waterproofing Uses

- * Roof areas (used with a base membrane layer)
- * Walkways
- * Deck and balcony areas
- * Exposed roof surfaces for maintenance and access areas
- * General horizontal surfaces exposed to weather General surfaces exposed to weather

Substrates

Substrates suitable for bonding Gripset LS Roof Coat over include:

- * Concrete and masonry screeds
- * Fibre cement, compressed fibre cement and cement sheeting products
- * Exterior grade plywood
- * Hebel panels
- * Failed Roof coatings
- * Existing tiles and pavers (in well bonded state)

For further information on suitable surfaces and substrates 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

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 38 membrane. For floor wastes that are finished level with the floor, Elastoproof Inverted Collars are to be fitted or alternatively the Gripset 38 membrane with Gripset RF Fabric embedded is to be dressed down into the waste outlet at a minimum 50mm

Sealer Coat

- * For enhanced stain resistance Gripset LS Roof Coat can be coated over with Gripset P20 Sealer
- * Allow 24 hours curing of LS Roof Coat prior to P20 Sealer 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.

Packaging

- * 15 litre pails; Available in Grey and Beige as standard
- * Custom colours available based on minimum order quantities

Precautions

- * Do not use on wet substrates or 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.
- * Do not use over glazed surfaces, glass or totally impervious surfaces
- * 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

Membrane Application

General

As a membrane system for trafficable 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 LS Roof Coat is then to be applied over as the exposed trafficable coating. Refer to individual data sheets for application details.

Gripset LS Roof Coat is to be applied in a minimum of 2 coats at a total minimum coverage of 1.5litres/m²; forming a minimum dried film thickness of approximately 1.5mm. Coverage can be increased for enhanced durability by applying product at coverage of 2litres per m² to form film thickness of 2mm. 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 or brush.

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.

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Technical Data

Form	Heavy viscous paint
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 Flood Test: 10 days curing
Specific Gravity	Roof Coat - 1.56kg/litre
Shore A Hardness (ASTM D2240-97)	108
Adhesion to substrates (Erichsen 525 Method)	After 28 days
• Concrete	1.6Mpa
• Compressed cement sheet	1.5Mpa
• Plywood	1.6Mpa
Elongation (AS4858)	45%
Accelerated Weathering (Xenon Arc)	No physical changes after 500hours
Water pressure resistance	Water tight at 1.5 bar for > 50 hours
Water vapour permeance (ASTM E96)	2 g/Pa.s.m ²

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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.

VOC Content (ISO 13741 – 1) 0.02g/litre

The VOC Content of Gripset LS is below the maximum VOC Content for Architectural and Interior Sealants as required by Green Star Ratings tools Education v1, Healthcare v1, Industrial v1, Multi Unit Residential v1, Office Interiors v1.1, Office Design v2, Office v3, Office As Built v2 and Retail Centre v1

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.