

HIGH BUILD POLYMER MODIFIED BITUMEN

www.gripset.com

TECHNICAL DATA SHEET

techinquiries@gripset.com

Description

Gripset 59 is a unique high build bitumen compound designed for applications in a range of waterproofing and sealing applications where achieving a thick film build is the primary objective. One of the key features of the Gripset 59 is its ability to be used by spatula or trowel to achieve film build in excess of 10mm in a singular application. Once the cured film is compressed, the waterproofing properties and water vapour transmission properties are further enhanced offering an ideal durable membrane for subterranean applications.

Features & Benefits

- * Solvent free, non toxic and free of dangerous odours
- * High build properties enabling singular film application >10mm
- * Non sagging on vertical surfaces
- * Forms a flexible waterproof membrane
- * Outstanding adhesion properties over a wide range of surfaces
- * Resistant to sulphates, ground salts, diluted acids
- * Can be applied over damp surfaces
- * Inbuilt root inhibitor
- * High impact and abrasion resistance removing the need for protection board over membrane for subterranean applications

Application

- * Gripset 59 is suitable for Commercial, Industrial and Rural applications

Uses

- * Waterproofing underground substrates, retaining walls, garden beds
- * Waterproof patching/filler
- * Waterproofing large construction joints (non expansion joints), e.g. abutments between concrete panels and precast
- * Joint filling
- * Concrete Pipe Sealing
- * Protection of concrete substrates against moisture, salt and chloride attack
- * Insulating cold room structures and freezing chambers
- * Outstanding noise reduction for resonance on metal surfaces

Surface Preparation

Surfaces must be prepared thoroughly before commencing application. All substrates must be structurally sound, stable, dry, and clean. Rough surfaces are to be evened or filled first (refer to Gripset 11Y) and very smooth shiny surfaces should be etched or lightly sanded. Building surfaces must be constructed to manufacturer's recommendations and relevant building standards in force at time of application. 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.

Application & Coverage

Gripset 59 must be applied onto a pre-dampened or primed surface: On porous concrete, masonry and mineral surfaces, if pre-wetting down, ensure there is no ponding or surface water before membrane application. Surfaces can be damp but must not have free water present when applying membrane. If using a primer, Gripset 51 diluted 1:3 with water can be used.

For spatula/trowel applications, product can be applied at film build of 5-10mm. This can be applied directly using a steel float or alternatively applied with a notch trowel. Once the notch trowel has applied product, the flat side of the trowel is to flatten or smooth the film

For brush or textured roller applications, product should be agitated with electric stirrer or mixing by hand.

As a membrane coating a minimum coverage of 2litres/m² is recommended. A dried film of 2mm or greater is required.

For sealing deep, wide joints, applications should be carried out using a backing rod inside the joint before applying product.

Reinforcement

If applying over movement areas, subject to expansion/contraction, Gripset Elastoproof Joint bands can be used. Refer to Elastoproof Product Data sheets or contact Gripset Technical Services for more details.

Packaging & Storage

- * 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
- * Available in 15 litre pails

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Precautions

- * Not to be used as a trafficable surface
- * Do not apply to areas when rain is imminent
- * Do not apply when surface temperature is below 5°C or above 35°C.
- * Not to be applied over glass or glazed surfaces
- * Not designed as a sealant for expansion 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
- * Not to be used as a waterproof membrane in immersed areas. Refer to Gripset 51 or other suitable Gripset membrane details
- * Material Safety Data sheet (**MSDS**) available
- * For further information about this product contact technical department of Gripset Industries

Clean Up

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

Technical Data

Appearance	Wet film - dark brown; Dry film - black/charcoal
Specific gravity	0.78kg/litre
Solid Content (ASTM D-2939/8)	80%
Drying Times (1mm thick)	Tack Free: 30-60 mins Re-coat: 60-120 mins Full cure: 5 day
Shore A Hardness (ASTM D2240-97)	40
Tensile Strength (AAS1145-1989)	0.35 MPa
Elongation (AS1145-1989)	250%
Water Soluble	100% soluble in a wet state
Toxicity	Nil
Flammability	Nil
Cured Film	
Resistance to water	Excellent
Resistance to diluted alkalis	Good
Resistance to diluted acids	Excellent
Resistance to solvents	Poor

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.