

HEAT REFLECTIVE LIQUID MEMBRANE

www.gripset.com

TECHNICAL DATA SHEET

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Description

Gripset HR4 is a waterproof membrane and decorative coating designed for walls and facades with unique high performance properties.

Providing long term protection against UV degradation and harsh climatic conditions, Gripset HR4 is specifically formulated with advanced heat reflective technology, reducing substrate surface temperatures by up to 16°C

Features & Benefits

- * Heat reflecting properties, reducing heat absorption into wall surfaces of buildings
- * Energy saving
- * Water based, free of solvents, non-toxic and non-flammable.
- * Rain resistant within 1 hour after application, prevents wash out by early rain
- * Fast drying, allowing total application in one day
- * Protects walls and facades against carbonation, rain, dirt and pollution absorption
- * Resistant to fungi and algae growth, particularly in humid and tropical conditions
- * Flexible, accommodating normal building movement
- * Low dirt retention
- * Suitable for large commercial building facades and walls, domestic apartment building walls or any wall surface exposed to weather
- * Available in various colours

Application

- * Gripset HR4 is suitable for commercial, industrial and residential applications.

Waterproofing Uses

- * Facade walls
- * Parapet walls.
- * General vertical surfaces subject to weather and exposure
- * Concrete columns
- * Feature walls
- * Single brick constructed walls

Substrates

Substrates suitable for bonding Gripset HR4 over include:

- * Concrete, render and masonry.
- * Fibre cement, plaster board and structural sheeting.
- * Clay and concrete blocks/bricks.

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 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

Note: Refer to data sheets for above primers before using

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

Membrane Application

- * Product is to be applied at a coverage rate of 1litre/6m² per coat
- * Minimum 2 coats recommended

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.

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Storage conditions

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

Packaging

- * 15 litre pails

Precautions

- * Do not apply when surface temperature is below 5°C or above 30°C
- * Not to be applied over glass or glazed surfaces
- * 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 white – can be tinted to any specified colour
Form	Viscous Liquid
Drying Based on normal ambient temperatures of 20°C *Temperature, humidity and porosity will vary dry times	Tack Free: 30 minutes Re-coat: 1 hour Dry film 1 hour Weatherproof: 1 hour
Specific gravity	1.2kg/litre
Elongation	180%
Estimated Surface Temperature reduction based on measured Total Solar Reflectance and calculations for low wind conditions. ASTM E1980-01	6°C to 16°C surface temperature reduction estimated with colour range available

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.