



Heat rejecting waterproof membrane

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.
- Available in different colours.

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
- External floors
- Facades
- Refrigerated vehicles
- Portable buildings, cabins and 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
- Asphalt/bitumen and other 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. 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.



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Priming

Gripset membranes must be applied onto primed surfaces:

- Gripset GP primer – for general porous building surfaces.
- Gripset 11Y slurry/primer - for immersed areas, extremely porous surfaces, asphalt/bitumen, non porous and existing surfaces (non porous and existing surface suitability to be checked with Gripset Technical services before commencing).
- Gripset P10 primer – for surfaces with residual or rising damp (refer to product data).

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 and gaps:	Filled with either Gripset GP enhanced mortar or Gripset 11Y & Gripset DM mortar repair compound. <i>These products are also recommended for forming waterproof fillet.</i>
Cracks <1mm:	Filled with Gripset EF or Gripset SB, followed by Gripset RF reinforcement.
Cracks >1mm:	Filled with Gripset EF or Gripset SB, followed by Elastoproof sealing system.
Bond Breaker:	Elastoproof Joint Band and corners (N or B grade) for junction detailing.
Movement or Expansion Joints:	Elastoproof Joint Band to be used. (Refer to Elastoproof brochure for selection of correct grade).
Penetrations, Pipes, Drain outlets:	Elastoproof Collars to be used. (Refer to Elastoproof brochure for available sizes).

Coverage & application

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.

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.

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

Packaging

- 15 litre oval pails; 200 litre drums

Clean up

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



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Technical data

Appearance	Standard – White <i>(Other colours are available to specification; however the standard colour provides the most effective heat rejecting properties)</i>
Form	Opaque viscous liquid
Drying <i>Based on normal ambient conditions of 25°C</i> <i>* Temperature, humidity and porosity will vary dry times</i>	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 (AAS1145-1989)	1.55 MPa
After UV exposure (AS2433-1994)	1.72 MPa
Elongation (AS1145-1989)	240%
Hemispherical Solar Reflectance (ASTME903-96)	80%
Accelerated Weathering (SAEJ1960-June'89) (1,000 hour Arc test)	No changes to physical appearance or properties

Contact details

Gripset Industries Pty Ltd
ABN: 41 094 789 929
Telephone: +61 (8) 8124-7300 or 1800 650 435
Email: techenquiries@gripset.com
Website: www.gripset.com

Product disclaimer

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