

Description

Gripset 4858 is a fibre reinforced, single part liquid rubber membrane with unique colour changing technology designed for waterproofing wet areas, showers, laundries on concrete slabs and general structures that will be covered over with toppings, tile beds or overlay finishes. Compliant to AS/NZS 4858:2004, Gripset 4858 satisfies the requirements of AS3740 "Waterproofing Wet Areas in Residential Buildings".

Developed by advanced polymer technology, 4858 is flexible and elastomeric, displaying excellent waterproofing features with low water vapour transmission properties and the ability to withstand wet conditions without re-emulsification of the cured membrane. Another key feature of the Gripset 4858 membrane is its colour changing feature that indicates when second coat is ready to apply.

When cured Gripset 4858 is a compatible bonding surface for a variety of toppings, renders, tiles and screeds to adhere without concerns of incompatibility or de-bonding.

Features & Benefits

- * Water based, free of solvents, non-toxic and non-flammable
- * Waterproof membrane specific for wet area waterproofing
- * Flexible & Elastomeric, accommodating normal building substrate movement
- * Compatible with tile finishes, concrete, render and masonry toppings
- * Durable and tough seamless finish
- * Excellent low water vapour transmission properties
- * Can be applied by brush or roller on horizontal and vertical surfaces
- * Low odour and free of dangerous fumes in warm and/or confined areas.
- * Colour changes from Pink to Red to clearly indicate second coat application

Application

Gripset 4858 is suitable for residential waterproofing applications.

Waterproofing Uses

- * Internal wet areas, bathrooms, laundries and tiled areas
- * Suitable to be covered over with screeds and toppings
- * General tiled areas to prevent moisture ingress

Substrates

Substrates suitable for bonding Gripset 4858 over include:

- * Concrete, render and masonry
- * Fibre cement sheeting, plasterboard and structural sheeting
- * Wet area timber sheeting and external grade plywood
- * Aerated concrete panels and blocks

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, smooth, stable, dry, and clean.

Rough surfaces and voids to be evened or filled first and all brick/block surfaces to be pointed flush. (refer to Gripset 11Y for concrete/masonry repairs). All general surface defects to be repaired.

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 objects, 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.

Priming

Gripset 4858 membrane must be applied onto primed surfaces:

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 non-porous, smooth and dense 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

Xpress Primer H20 Plus - For applications over green/dam concrete, screeds and mineral surfaces containing residual moisture

Gripset 11Y slurry – asphalt/bitumen surfaces and existing coatings. (suitability over existing coatings to be checked with Gripset Technical services before commencing) 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. Membrane is to be applied over primer slurry while primer is in a damp/wet state, i.e. "wet on wet" application

Gripset P10 or E60 primer – for surfaces with residual moisture or subject to rising damp. Refer to individual data sheets for specific coverage details. Allow respective primer to dry for a minimum 24 hours before applying membrane.

Note: Refer to data sheets for above primers before using

Detailing

All critical areas such as joints, junctions, movement zones, penetrations drainage points and cracks are to be correctly sealed and detailed prior to membrane application.

Voids, gaps and undulating surfaces in concrete/masonry	Filled and evened with Gripset 11Y repair mortar compound.
Static cracks up to 1mm:	Filled with Gripset SB, followed by Gripset RF reinforcement
Live cracks and cracks >1mm:	Filled with Gripset SB followed by 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 or Gripset SB with Gripset RF Reinforcement where collars cannot be utilised Butyl Squares over leak control flanges

Application and Coverage

Where applicable the application of Gripset 4858 must comply with the following standards:

AS3740- 2010 - Waterproofing of wet areas within residential areas

Product is to be applied in a minimum of 2 coats at a total minimum coverage of 1.5 litres/m²; forming a minimum dried film thickness of approximately 1.2mm.

Apply subsequent coats at different directions to the previous coat, subsequent coats may be applied when Gripset 4858 changes from Pink to Red. 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

Measure and cut Elastoproof Joint Band for all wall/floor junction areas. Apply first coat of Gripset 4858 membrane to extending 150mm 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°) and external (270°) 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 4858 membrane.

Sealing floor wastes and penetrations

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 4858 membrane. For sealing penetrations where Elastoproof product cannot be used, seal around base of penetration at abutment to substrate using Gripset SB sealant followed RF Fabric turned up the penetration and embedded into Gripset 4858 membrane.

For floor wastes that are finished level with the floor, the Gripset 4858 membrane with Gripset RF Fabric embedded is to be dressed down into the waste outlet at a minimum 50mm ensuring the perimeter of the pipe/substrate abutment is sealed.

For leak control flanges apply Gripset SB or compatible sealant around edges of flange at interface with floor substrate. Gripset 4858 membrane with Gripset RF Fabric embedded is to be applied over edges of flange at floor substrate abutment until total perimeter is sealed. Return Gripset 4858 membrane down into flange. For alternative sealing option see Elastoproof Butyl Squares.

When the detailing application has been completed apply Gripset 4858 membrane to the total floor area and to wall areas as required. A continuous seamless membrane should be the final finish to the total area upon completion of the waterproofing membrane application.

Tiling & Surface Toppings

When tiling directly over Gripset 4858 in internal or external floor areas, polymer modified cement based adhesives must be used.

If applying a screed, render or concrete topping over Gripset 4858 it is recommended to incorporate Gripset 11Y as a proprietary bonding agent and water resistant additive. Alternatively see Gripset C-Bed polymer enhanced screed.

For use of other adhesives over Gripset 4858 contact the technical department of Gripset Industries for detail of compatibility. Pre mixed tile adhesives are not recommended for use over Gripset 4858. Drying time before tiling is 24-48 hours.

Note: All tiling is to be carried out to AS3958.1 – 2007 "A Guide To The Installation of Ceramic Tiles"

Storage conditions

- * Best stored at room temperature.
- * Avoid cold freezing conditions and off concrete floors.
- * Do not store in direct sunlight.
- * Shelf life: 24 months in unopened container

Packaging

- * 15Litre pails

Precautions

- * Not to be used as a trafficable surface
- * Not to be used as a finished membrane for UV exposed applications
- * Do not apply to areas when rain is imminent
- * Do not apply when surface temperature is below 5°C or above 30°C
- * Not to be applied over glass or glazed surfaces
- * Not designed as a sealant for expansion or control 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
- * All finish coatings over this membrane must be water based and solvent free
- * Allow 10 days drying after final application if treated area is to be flood tested
- * Safety Data sheet (SDS) available
- * For further information 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 - Pink	Dry Film - Red
Form	Viscous Paste	
Drying	Tack Free: 1-2 hours Re-coat: 4 hours Dry film – 24 hours	
Based on normal ambient temperatures of 23°C and 50% RH	Tiling or toppings over: 24-48 hours Flood test: 10 days curing	
*Temperature, humidity and porosity will vary dry times		
Specific gravity	1.3kg/litre	
Shore A hardness (ASTM D2240-97)	65	
Adhesion to concrete (after 7 days)	0.9MPa at 1mm dried film thickness	

Durability test results for AS/NZ 4858 – 2004:	
Elongation classification	318% - Class 3
Tensile Strength	0.78MPa
Water Immersion test – 56 days	PASS
Bleach Immersion Test – 56 days	PASS
Detergent Immersion Test – 56 days	PASS
Heat Ageing	PASS
Cyclic Movement Test	PASS
Water Absorption Test	PASS
Vapour Transmission Test	2.4g/24h/m2

VOC Content (ISO 13741-1)	0.08g/litre
<small>The VOC Content of Gripset 4858 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</small>	

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.