GRIPSET® 51

SOLVENT FREE BITUMEN RUBBER MEMBRANE

TDS

TECHNICAL DATA SHEET

Description

GRIPSET 51 is a solvent free bitumen rubber liquid membrane that has excellent sealing and adhesion properties over a number of common building surfaces. Gripset 51 is a versatile and economical membrane system suitable for both new and existing construction for underground and external areas. In addition to its excellent membrane properties, Gripset 51 can also be used as a protective coating for timber and metal surfaces.

Features & Benefits

- Solvent free, non-toxic and non-flammable
- Flexible, accommodating normal substrate movement
- Ability to withstand continuously damp environments
- Good crack bridging properties
- High adhesion properties to porous and non-porous surfaces
- Protective coating against corrosion, rot and salt damp
- Bonds to asphalt/ bitumen surfaces, ideal for repair of failed aged coatings
- Compatible with cement for waterproofing slurries and mortars
- User and environmentally safe
- Excellent sound deadening properties

Application

- Gripset 51 is suitable for commercial, industrial and residential, rural and automotive applications

Uses

- Retaining walls and underground surfaces
- External cellar and basement walls
- Planter boxes and garden beds
- Gutter repairs
- Protective coating over metal and timber surfaces

IMPORTANT: When exposed to long term UV, surface crazing may occur

Substrates

- Concrete, render and masonry.
- Compressed fibre cement sheeting.
- Marine ply, timber sheeting and timber posts
- Galvanised iron and zincalume (not raw steel).
- Bituminous and asphalt substrates.
- Polystyrene

For further information and advice on surface/substrate suitability and preparation contact RLA Technical department

Surface Preparation

- All surfaces are to be clean, sound, smooth, dry, and free from loose material, dirt, dust, oil, grease, wax residues, laitance, curing compounds, release agents, existing coatings, moss, algae, sharp protruding objects and general surface contaminants that may compromise the adhesion of the overlaid membrane system
- Structurally unsound layers and surface contaminants to be mechanically removed by grinding, abrasive blasting or equivalent methods.
- Masonry surfaces to be pointed flush, and all surface defects including voids, holes, pitted sections, heavy undulations and non-structural cracks to be filled and levelled. Refer to Gripset 11Y enhanced repair mortar or the RLA range of repair mortars and levelling compounds for options
- Building surfaces must be fit for purpose, constructed and installed to manufacturer's recommendations and relevant building standards in force at time of application
- Concrete to be allowed to cure for at least 28 days, and cement render/sand cement screeds allowed to cure for at least 7 days

Priming

Gripset 51 membrane must be applied onto primed surfaces.

POROUSABSROBENT SURFACES

GRIPSET 51 diluted 1:3 with water:

Mix Gripset 51 with water at a 1:3 ratio on volume until a smooth homogenous consistency is formed. Apply liberally to the total surface area by brush or roller

NON POROUS/NON ABSORBENT SURFACES

GRIPSET 51 diluted 1:1 with water:

Mix Gripset 51 with water at a 1:1 ratio on volume until a smooth homogenous consistency is formed. Apply liberally to the total surface area by brush or roller. Alternatively, Gripset OP Primer can be used

DAMP SURFACES/SURFACES SUBJECT TO RISING DAMP

GRIPSET E60

For applications over mineral surfaces with residual moisture >80%RH when tested to ASTM F2170 or 5% moisture content when tested to ASTM F2659
For applications over mineral surfaces subject to rising damp
Apply 1-2 coats by brush or medium nap roller at a minimum coverage of 1llitre per 3m² per coat

Installation

Apply primer to surfaces to the extent of the waterproofing application, in line with relevant standards and project specifications
Refer to individual primer data sheets for specific application details

Detailing & Bond breaker Systems

All critical areas of the waterproofing application including joints, junctions, movement zones, penetrations, drainage points and cracks are to be correctly sealed and detailed prior to membrane application.

Refer to the following table and individual product TDS for specific installation details

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Detailing & Bond breaker Systems

Bond breaker & joint transitions (AS 3740 & AS 4654.1)	**Option A** ELASTOPROOF B50 JOINT BAND
	Option B BRW PF TAPE
	Option C RLA MAX SMP 25*
Pipes and penetrations	**Option A** ELASTOPROOF COLLARS
	Option B BRW PF TAPE
	Option C RLA MAX SMP 25*
Leak control flanges and general fixtures	**Option A** RLA MAX SMP 25*
	Option B BRW PF TAPE/BUTYL SQUARES
Static cracks ≥1mm up to 6mm	RLA MAX SMP 25*

Bond breaker – Option A

- Measure and cut ELASTOPROOF B50 JOINT BAND bond breaker tape for joints/junctions to be sealed.
- Apply a first coat of Gripset 51 membrane by brush or roller in a 150mm wide strip applied centrally over the joint.
- Install Joint Band into the wet coat, and using a brush, press down firmly over the face of the B50 Joint Band ensuring all creases or air pockets behind fabric edges are pushed out
- Apply a second coat of 51 membrane to fully encapsulate the Joint Band and affix to the surface
- PREFABRICATED CORNERS are available for both internal (90°) and external (270°) junctions

Bond breaker – Option B

- Unroll BRW PF TAPE and measure the required lengths for joints to be sealed. Cut the tape using scissors or knife
- Gradually remove release paper and position the tape in place, placing centrally over the joint
- Press into place with a spatula, roller, or cloth, ensuring air pockets and creases are pushed out

Bond breaker – Option C

- Install a bond breaker fillet using RLA MAX SMP 25* sealant to floor/wall junctions & horizontal/vertical joint transitions where the membrane will be bonded to the substrate and tool off smooth

Pipes and penetrations

- For floor pipes/penetrations protruding floors and walls, ELASTOPROOF COLLARS are to be fitted over the neck of the pipe and fixed into wet coat of 51 Membrane
- Where Elastoproof Collars are not used, create flanges using lengths of the BRW PF TAPE. Cut a circular aperture into the centre of a length and slide over the penetration to seal and adhere to the substrate
- Alternatively, seal around base of penetration with a liberal bead of MAX SMP 25* and tool smooth

Leak control flanges & general fixtures

- Seal the base perimeter of the fixture/flange to the substrate with RLA MAX SMP 25* sealant and tool smooth
- Alternatively, seal areas with BUTYL SQUARES or lengths of BRW PF TAPE

Static cracks ≥1mm up to 6mm

- Clean and remove all loose material from inside the crack
- Fill flush with surrounding surface using RLA MAX SMP 25 sealant and overlay with strips of RLA Waterproofing Bandage, Elastoproof B50 Joint Band or BRW PF Tape

*RLA WATERPROOF BANDAGE can be considered for use in conjunction with RLA MAX SMP Sealant for additional reinforcement

Application & Coverage

- Gripset 51 is to be installed in line with current edition, relevant volume and sections of the NCC (National Construction Code of Australia) pertaining external and general waterproofing applications within the scope of use for the product
- Product is to be applied by brush or medium nap roller
- Apply a minimum of 2 coats at a total minimum coverage of 1.5 litres/m² to form a 1mm dried film thickness
- Apply subsequent coats at different directions to the previous coat.
- A wet film gauge should be used to regulate correct coverage of each coat.

	Wet Film	Dry Film	Total film	Total coverage per 15itre pail
1st Coat	750microns	500microns	500microns	10m²
2nd Coat	750microns	500microns	1.0mm	

Note: 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.

Mixing Gripset 51 with Mortar

HIGH BUILD APPLICATIONS

Gripset 51 can be mixed with mortar in high build applications to:

- Form waterproof fillets at wall/floor junctions (e.g. planters, garden beds)
- Fill voids and levelling asphalt and bitumen surfaces
- Thin build render coats on rough & uneven surfaces (block retaining walls)

Mortar: 3 parts sand: 1 parts cement (based on volume)
Method: Wet dry components with water to form a working mortar before being mixed with Gripset 51
Mix Ratio: 1 part Gripset 51: 1 part mortar. Mix components together with an electric stirrer at medium speed until well combined
Application: Apply by trowel or spatula to the required thickness

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Mixing Gripset 51 with Mortar continued

LOW BUILD APPLICATIONS

Gripset 51 can be mixed with mortar in low build applications to:

- Facilitate membrane drying/curing in colder temperatures
- Provide enhanced filling properties over porous or uneven substrates
- Improve coverage efficiencies

Mortar: 3 parts sand: 1 part cement (based on volume)
Method: Wet dry components with water to form a working mortar before being mixed with Gripset 51
Mix Ratio: 3 parts Gripset 51: 1 part mortar. Mix components together with an electric stirrer at medium speed until well combined.
Application: Apply by brush or medium nap roller at the specified coverage

Important: When mixing Gripset 51 with mortar, only mix quantities that can be consumed for the required application. Gripset 51 when mixed with mortar cannot be stored

Drying times

Re-coat:	2-4 hours
Backfilling:	5 days
Full Cure / Flood Test:	10 days

Important: :
Drying times are based on ambient temperatures @ 23°C and 50% RH.
Drying times may vary subject to ambient/surface temperatures, humidity and substrate porosity.
Drying/curing times will be extended in cooler conditions and periods of high relative humidity

Clean up

- In water while membrane is in a wet state
- Dried product will need to be removed mechanically

Shelf life and Storage

- 12 months when stored in original unopened packaging
- Avoid freezing conditions and off of cold floors
- Best stored at room temperature
- Do not store in direct sunlight

Container sizes

- 5Litre & 15Litre pails

Precautions

- Not to be used as a trafficable coating
- Not to be finished directly over with tiles, renders, screeds, paints or other surface finishes
- Do not apply to areas when rain is imminent
- Not to be used for immersed applications
- 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 subject to rising damp or negative hydrostatic conditions
- Do not apply when surface temperature is below 5°C or above 35°C
- For further information about this product contact RLA Technical Department

Health & Safety

For information and advice on the safe handling, first aid, storage and disposal of chemical products, users must refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data

Technical Data

Form	Viscous Liquid
Colour	Wet: Charcoal Dry: Black
Specific Gravity	1.15kg/litre
Shore A Hardness (ASTM D2240-97)	52
Elongation (AS1145.3)	>500% Class III
Tensile Strength (AS1145.3)	>2MPa
Water Absorption (AS 3558.1)	1.6%
Water Vapour Transmission (ASTM E96 Desiccant method)	1.2g/m2 /24 hours

RLA POLYMERS
GRIPSET® SEALED FOR GOOD

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Warranty Statement:

RLA Polymers guarantees this product against manufacturing defects and guarantees it to be manufactured to our published specification.
We certify that this product is suitable for use when fully cured and will perform as described in our technical data sheet or other published materials.
RLA Polymers will replace the product free of charge when purchased from any legally verifiable source and where the product is proven to have been stored, handled, and install according to instructions published on our packaging and within the stated shelf life. The Installation of all materials must be carried out in accordance with relevant Australian Standards.
Warranty doesn't apply if damage, loss, failure to follow instructions, or other circumstances are out of our control.
Sufficient time and access to investigate any complaint must be accorded to RLA Polymers.
The consumer is responsible for any expenses incurred in making a claim.

Australian Consumer Law:

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality, and the failure does not amount to a major failure. The benefits under our warranty are in addition to other rights and remedies available to the consumer under the law in relation to the goods and services to which the warranty relates.

Disclaimer:

All statements and technical information contained herein are based on tests we believe to be reliable, but the accuracy thereof is not guaranteed.
Users assume all risk and liability resulting from the use of the product and must confirm the suitability thereof by their own tests. Conditions of Sale contain a limited warranty against manufacturing defects.

GRIPSET 51 TDS

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