



TDS

TECHNICAL DATA SHEET

Description

BT Rapid is a high performance, water based, fast curing, fibre reinforced SBR latex membrane designed for a range of applications where the membrane will be covered over with tile toppings and overlay finishes.

Utilising the latest in rapid cure technology, Gripset BT Rapid improves application efficiencies by significantly reducing drying and tile over times. Flexible, elastomeric and with exceptional vapour barrier properties for critical areas, Gripset BT Rapid provides a highly durable membrane system for both domestic and commercial projects.

Compliant to AS/NZS 4858:2004 and AS4654.1:2012, BT Rapid is suitable for use in internal and external areas.

Features & Benefits

- Water based, free of solvents, non-toxic and non-flammable
- Fast curing, able to be tiled over after only 4 hours
- Fibre reinforced for enhanced tensile strength and workability
- Forms a rain resistant film for external decks in only 4 hours
- Will not re-emulsify once cured
- Flexible & elastomeric, Class III membrane accommodating normal substrate movement
- Compatible with tile finishes, concrete, render and masonry toppings
- Durable and tough finish
- Excellent vapour barrier properties
- Compliant to AS4858:2004 and AS4654.1:2012 for use in internal and external applications

Uses

- Internal wet areas, bathrooms, laundries and tiled areas
- Balconies, decks, podiums, terrace floors
- Roofs to be covered over with screeds and toppings
- Liquid vapour barrier between toppings and slabs
- General tiled areas to prevent moisture ingress

Surface Preparation

Substrates to which the membrane is to be applied must be structurally sound and stable. All building surfaces which the membrane system is to be applied are to be installed as per manufacturers recommendations, in line with relevant building standards in force at time of the application. Surfaces must be smooth, dry and clean. Rough surfaces, voids, hollows and surface depressions to be evened or filled first and all brick/block surfaces to be pointed flush. All movement joints to be filled with appropriate flexible sealant. All general surface defects including cracks to be filled and repaired. All surfaces are to be free of sharp protruding objects, loose material, de-bonded or existing coatings, curing membranes/agents, release agents, wax residues, foreign particles, laitance, algae and moss, grime, oils, animal fats, grease remains and any contaminants that could compromise the adhesion of the overlaid membrane system. Structurally unsound layers and surface contaminants are to be mechanically removed by abrasive blasting, blast tracking, grinding, high pressure cleaning or equivalent methods. Concrete to be cured for a minimum 28 days and screeds left to dry for at least 7 days prior to the membrane application* Gripset C-Bed and RLA TruLevel Econoscreed Rapid to be left to dry for minimum 24 hours prior to the membrane application. Leak control flanges are to be rebated into floor surface enabling lip of flange to sit flush with surrounding substrate.

* Refer to Gripset Xpress Primer H₂O and Gripset E60 for priming over substrates containing residual dampness

Priming

Gripset BT Rapid membrane must be applied onto primed surfaces:

Porous/absorbent surfaces

Gripset GP Primer - 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.

Non-porous/absorbent surfaces

Gripset OP Primer - Brush or roller apply primer to total surface area at a minimum coverage of 1 litre per 12m² and allow to dry for 30-60 minutes

Green screeds and surfaces with residual moisture

Gripset Xpress Primer H₂O - Brush or roller apply to total surface at minimum coverage of 1litre per 8m² and allow to dry 60minutes

Surfaces subject to rising damp

Gripset E60 Primer - Brush or roller 2 x coat at coverage of 1litre per 3m² per coat. Allow 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 including joints, junctions, movement zones, penetrations drainage points and cracks must be correctly sealed and detailed prior to membrane application.

Voids, gaps and undulating surfaces in concrete/masonry	Filled and evened with suitable repair mortar or self-levelling compound. Refer to RLA range of repair mortars and floor levellers
Static cracks up to 2mm	Filled with Gripset SB or RLA Flex Pro MS Sealant
Cracks up 5mm	Filled with Gripset SB or RLA Flex Pro MS sealant followed by Elastoproof Joint Band
Bond Breaker:	Elastoproof B50 Joint Band to perimeter wall/floor junctions and wall/wall junctions. OR Class III sealant bond breaker as per AS3740 – 2021 and AS4654.2 – 2012 Refer to Gripset SB or RLA Flex Pro MS
Movement & Expansion Joints, sheeting joints to external areas	Filled with proprietary joint sealant and overlaid with Elastoproof Joint Band
Internal sheeting joints	Filled with proprietary sealant and overlaid with BRW PF Tape, or Elastoproof B50 Joint Band
Pipes, penetrations, and fixtures	Elastoproof Collars or Gripset SB or RLA Flex Pro MS sealant
Leak control flanges	Butyl Squares or Gripset SB Sealant or RLA Pro flex applied to perimeter edge of flange



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Application and Coverage

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

AS3740- 2021 - Waterproofing of wet areas within residential areas

AS4654.2-2012- Waterproofing membrane systems for exterior use – above ground level

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 1.0mm. Apply subsequent coats at different directions to the previous coat. Product can be applied by medium nap roller or brush

Membrane thickness per coat		Total Dry Film Thickness	Coverage per 15L pail	
Wet film	Dry film		Per coat	2 coats
0.75mm	0.5mm	1.0mm	20m ²	10m ²
1 x 15Litre ail will cover 10m2 in a 2 x coat application				
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.				

Installing Elastoproof Bond Breaker Joint Band

Measure and cut Elastoproof Joint Band for all wall/floor junction areas. Apply first coat of Gripset BT Rapid 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 joints 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 BT Rapid 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 BT Rapid membrane. Alternatively, seal base of penetration at abutment to substrate using Gripset SB or RLA Flex Pro MS sealant, extending the sealant a minimum of 6mm up pipe/penetration and onto surrounding substrate.

For floor wastes that are finished level with the floor, seal perimeter with sealant and dress the BT Rapid Membrane 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 RLA Flex Pro MS sealant around edges of flange at interface with floor substrate. Gripset BT Rapid membrane is to be applied over edges of flange at floor substrate abutment until total perimeter is sealed. Return BT Rapid membrane down into flange. For alternative sealing option see Elastoproof Butyl Squares.

When the detailing application has been completed apply Gripset BT Rapid 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 BT Rapid in internal or external floor areas, refer to the Beaumont BT range of tile adhesives

If applying a screed, render or concrete topping over Gripset BT Rapid it is recommended to incorporate Gripset 11Y as a proprietary bonding agent and water-resistant additive. Alternatively see Gripset C-Bed or RLA TruLevel Econoscreed Rapid engineered screeds. For use of other adhesives over Gripset BT Rapid contact Beaumont Tiles or Gripset for detail of compatibility.

Drying time before tiling is minimum 4 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/solvent free
- Allow minimum 24 hours 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



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Appearance	Wet and dry film – Blue
Form	Viscous Paste
Drying Based on normal ambient temperatures of 23°C and 50% RH *Temperature, humidity, and porosity will vary dry times	Tack Free: 1-2 hours Re-coat: 1 hour Dry film – 3 hours Tiling or toppings over: 4 hours Flood test: 24 hours
Specific gravity	1.3kg/litre
Shore A hardness (ASTM D2240-97)	65
Adhesion to concrete (after 7 days)	1.3MPa at 1mm DFT
Durability test results for AS/NZ 4858 – 2004:	
Elongation classification	480% - Class 3
Tensile Strength	1.09MPa
Vapour Transmission Test	0.14g/24h/m2

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.

RLA Polymers

ABN: 89 004 709 915
Telephone: 1800 650 435
Email: techenquiries@gripset.com

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.

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NON-Hazardous Chemical, NON-Dangerous Goods

1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

Product name: Gripset BT Rapid

Synonyms

Gripset BT Rapid - 5L
Gripset BT Rapid- 15L

Product Code

GWS-068
GWS-065

Recommended use: Elastomeric Under Tile Membrane

Supplier: RLA Polymers
ABN: 89004709915
Street Address: 215 Colchester Road
Kilsyth Victoria 3137 Australia
Telephone: 08 8124 7300
Facsimile: 08 8124 7350
Email: info@gripset.com

Emergency Telephone number: 1800 650 435

2. HAZARDS IDENTIFICATION

Based on available information, this material is not classified as hazardous according to criteria of Safe Work Australia.

Poison Schedule: Not Applicable

DANGEROUS GOOD CLASSIFICATION

Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

3. COMPOSITION INFORMATION

CHEMICAL ENTITY	CAS NO	PROPORTION
Additives, determined to be not hazardous		1-10 %
Aqueous polymer dispersion		30-60 %
Inert inorganic fillers		30-60 %
Ingredients determined to be Non-Hazardous		Balance
		100%

4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

Inhalation: Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

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Skin Contact: If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If swelling, redness, blistering or irritation occurs seek medical assistance.

Eye contact: If in eyes wash out immediately with water. In all cases of eye contamination it is a sensible precaution to seek medical advice.

Ingestion: Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Seek medical advice.

PPE for First Aiders: Wear safety shoes, overalls, gloves, safety glasses. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

Notes to physician: Treat symptomatically.

5. FIRE FIGHTING MEASURES

Hazchem Code: Not applicable.

Suitable extinguishing media: If material is involved in a fire use water fog (or if unavailable fine water spray), alcohol resistant foam, standard foam, dry agent (carbon dioxide, dry chemical powder).

Specific hazards: Non-combustible material.

Fire fighting further advice: Not combustible, however following evaporation of aqueous component residual material can burn if ignited.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILLS

Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours or dust. Wipe up with absorbent (clean rag or paper towels). Collect and seal in properly labelled containers or drums for disposal.

LARGE SPILLS

Clear area of all unprotected personnel. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal. If contamination of crops, sewers or waterways has occurred advise local emergency services.

Dangerous Goods - Initial Emergency Response Guide No: Not applicable

7. HANDLING AND STORAGE

Handling: Avoid eye contact and repeated or prolonged skin contact

Storage: Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from incompatible materials described in Section 10. Keep containers closed when not in use - check regularly for leaks

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National occupational exposure limits: No value assigned for this specific material by Safe Work Australia.

Biological Limit Values: As per the "National Model Regulations for the Control of Workplace Hazardous Substances (Safe Work Australia)" the ingredients in this material do not have a Biological Limit Allocated.

Engineering Measures: Natural ventilation should be adequate under normal use conditions.

Personal Protection Equipment: SAFETY SHOES, OVERALLS, GLOVES, SAFETY GLASSES.

Personal protective equipment (PPE) must be suitable for the nature of the work and any hazard associated with the work as identified by the risk assessment conducted.

When handling individual retail packs no personal protection equipment is required.

Wear safety shoes, overalls, gloves, safety glasses. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

Hygiene measures: When using do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Avoid contact with clothing. Avoid eye contact and repeated or prolonged skin contact

9. PHYSICAL AND CHEMICAL PROPERTIES

Base Units: Litres
Form: Viscous Liquid
Colour: Blue
Odour: N Av

Solubility in water:	Miscible
Specific Gravity (20 °C):	1.3
Density:	N Av
Relative Vapour Density (air=1):	N Av
Vapour Pressure (20 °C):	N Av
Flash Point (°C):	N App
Autoignition Temperature (°C):	N App
Melting Point/Range (°C):	N Av
Boiling Point/Range (°C):	N Av
Decomposition Point (°C):	N Av
pH:	9.5
Viscosity:	N Av
Total VOC (g/Litre):	N Av

(Typical values only - consult specification sheet)
N Av = Not available, N App = Not applicable

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10. STABILITY AND REACTIVITY

Chemical stability: This material is thermally stable when stored and used as directed.

Conditions to avoid: Elevated temperatures and sources of ignition.

Incompatible materials: Oxidising agents.

Hazardous decomposition products: Oxides of carbon and nitrogen, smoke and other toxic fumes.

Hazardous reactions: No known hazardous reactions.

11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Acute Effects

Inhalation: Material may be an irritant to mucous membranes and respiratory tract.

Skin contact: Contact with skin may result in irritation.

Ingestion: Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract.

Eye contact: May be an eye irritant.

Acute toxicity

Inhalation: This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): LC50 > 20.0 mg/L for vapours or LC50 > 5.0 mg/L for dust and mist or LC50 > 20,000 ppm for gas

Skin contact: This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >2,000 mg/Kg bw

Ingestion: This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >2,000 mg/Kg bw

Corrosion/Irritancy: Eye: this material has been classified as not corrosive or irritating to eyes. Skin: this material has been classified as not corrosive or irritating to skin.

Sensitisation: Inhalation: this material has been classified as not a respiratory sensitiser. Skin: this material has been classified as not a skin sensitiser.

Aspiration hazard: This material has been classified as non-hazardous.

Specific target organ toxicity (single exposure): This material has been classified as non-hazardous.

Chronic Toxicity

Mutagenicity: This material has been classified as non-hazardous.

Carcinogenicity: This material has been classified as non-hazardous.

Reproductive toxicity (including via lactation): This material has been classified as non-hazardous.

Specific target organ toxicity (repeat exposure): This material has been classified as non-hazardous.

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12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

Acute aquatic hazard: No information available

Long-term aquatic hazard: No information available

Ecotoxicity: No information available.

Persistence and degradability: No information available

Bioaccumulative potential: No information available

Mobility: No information available

13. DISPOSAL CONSIDERATIONS

Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal protection equipment is used, see "Section 8. Exposure Controls and Personal Protection" of this SDS.

If possible material and its container should be recycled. If material or container cannot be recycled, dispose in accordance with local, regional, national and international Regulations.

14. TRANSPORT INFORMATION

ROAD AND RAIL TRANSPORT

Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

MARINE TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

AIR TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

15. REGULATORY INFORMATION

This material is not subject to the following international agreements:

Montreal Protocol (Ozone depleting substances)
The Stockholm Convention (Persistent Organic Pollutants)
The Rotterdam Convention (Prior Informed Consent)
Basel Convention (Hazardous Waste)
International Convention for the Prevention of Pollution from Ships (MARPOL)

This material/constituent(s) is covered by the following requirements:

- All components of this product are listed on or exempt from the Australian Inventory of Chemical Substances (AICS).

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16. OTHER INFORMATION

Reason for issue: First issue

This information was prepared in good faith from the best information available at the time of issue. It is based on the present level of research and to this extent we believe it is accurate. However, no guarantee of accuracy is made or implied and since conditions of use are beyond our control, all information relevant to usage is offered without warranty. The manufacturer will not be held responsible for any unauthorised use of this information or for any modified or altered versions.

If you are an employer it is your duty to tell your employees, and any others that may be affected, of any hazards described in this sheet and of any precautions that should be taken.

Safety Data Sheets are updated frequently. Please ensure you have a current copy.