GRIPSET® E60

WATER BASED EPOXY MEMBRANE COATING

TDS

TECHNICAL DATA SHEET

Description

GRIPSET E-60 is a two component water based epoxy compound suitable for use as both a primer and protective coating to prevent moisture penetration and rising damp through mineral surfaces. Once dried it provides a suitable surface for applying coatings, adhesives and floor finishes over.

Features & Benefits

- Non-flammable, odourless and low VOC
- Excellent adhesion properties
- Can be applied to damp and "green" concrete
- Can withstand up to 25 metres or up to 250Kpa of hydrostatic pressure
- Extended pot life
- Suitable for internal and external applications
- Compatible bonding surface for Gripset membranes, adhesives and other finishes
- Complies with AS 4020 for potable water storage

Uses

- Vapor and moisture barrier seal over damp or green concrete and mineral surfaces
- High performance primer with low water vapour transmission properties
- As a vapour/moisture barrier primer for waterproofing, flooring and tiling applications where substrate moisture exceeds maximum allowable levels in line with manufacturers TDS and relevant installation standards.
- Hydrostatic pressure resistant coating against negative moisture and rising damp
- Protective barrier coating to prevent efflorescence through concrete and mineral surfaces
- Waterproof coating for potable water storage tanks

Substrates

- Concrete
- Concrete block
- Screed and render
- Masonry
- Glass reinforced concrete
- Compressed fibre cement sheeting including James Hardie Scyon Secura™ external/internal flooring
- Timber

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 primer 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 E60 high strength mortar or the RLA range of surface preparation aids and repair 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

Mixing

1. Lightly stir parts A and B to ensure a homogenous consistency before mixing
2. Measuring by volume, add equal parts of Part A and Part B into a clean mixing pail
3. Using an electric stirrer with paddle attachment, thoroughly mix the 2 components at low-medium speeds for approx. 3 minutes until a homogenous consistency is formed.
4. Allow the product to settle for 5 minutes after mixing before use

Water addition:
Subject to surface porosity, **the first coat** of Gripset E60 can be diluted with water to enable optimal penetration into the substrate.

Porous surfaces: 5% dilution with water
Non porous/dense surfaces 10% with water

Application

- If applying over dry or highly porous surfaces including aged concrete, or screeds, surfaces to be lightly dampened with a fine water mist
- Over floor surfaces product can be applied using a squeegee, stiff nylon broom or medium/long nap roller working the E60 into surfaces to enable optimum absorption and penetration into the substrate.
- Work into surface ensuring all pinholes and voids are filled and a consistent even coverage and film thickness is achieved.
- Over vertical wall surfaces a medium-long nap roller is recommended.
- A wet film gauge should be used to regulate correct coverage of each coat.
- Check dry film for pinholes and recoat as required

General Primer and adhesion enhancer

- General primer and adhesion enhancer for overlaid Gripset membrane systems to approved substrates including James Hardie Scyon™ Secura™ compressed fibre cement sheeting
- Apply 1 x coat @ coverage of 1litre/10m² forming a 100 micron wet film thickness and a 50micron dry film thickness

Vapour barrier coating

- Priming "green" concrete and screeds and surfaces with elevated levels of residual moisture prior to the installation of Gripset liquid and sheet membrane systems
- Apply 1 x coat @ coverage of 1litre/3m² forming a 300 micron wet film thickness and a 150micron dry film thickness.

Moisture barrier coating

- Hydrostatic coating against permanent moisture and rising damp
- Efflorescence prevention through floor and wall surfaces
- Potable water storage/immersed applications
- Apply 2 x coats @ coverage of 1litre/3m² per coat forming a total minimum dry film thickness of 300 microns

NANPAO

High strength repair mortars

- Patching surface defects and irregularities
- Crack and general repairs
- Waterproof fillets

E60 Repair Mortar

1 part mixed Gripset E60
1 part Portland cement
3 parts fine wash sand

Method:
Combine wet and dry components and mix thoroughly to form a working mortar consistency and apply with spatula or trowel
Note: Only mix what can be used for the application as product cannot be stored

Coverage

	Wet Film	Dry Film	Total film
Primer Coat	100microns	50microns	50microns
1ST Coat – Vapour Barrier	300microns	150microns	150microns
2ND Coat – Moisture Barrier	300microns	150microns	300microns

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.

Liquid Membranes & Paint Finishes

- Gripset E60 can be coated directly with water and solvent based membranes, paints and finishes
- All overlaid finishes must be applied over Gripset E60 within 72 hours of the dried film.
- After 72 hours, a light sand with 240grit sandpaper may be required to lightly roughen the surface to promote adhesion
- If required apply a further coat of Gripset E60 and allow to dry and apply coating within 72 hours of the dried film.

Tile Adhesives & Cementitious Toppings & Levellers

When tiling or applying cement-based floor toppings such as screeds, levelling compounds or smoothing cements directly over the E60, apply **2 x coats** of the E60 at coverage of 1litre/3m² per coat.
The second coat is to be sand seeded by broadcasting a fine, dry sand into the wet coat at a rate of 750g/ m² to achieve a minimum 90% coverage. Sweep/vacuum excess sand from the surface once coating is dried.

Drying times

Pot life 2 hours
Recoat: 4 hours
Overcoating with finishes: 24 hours
Immersion: 7 days
Full Cure: 7 days

Note:
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 primer 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 in a dry area at room temperature
- Do not store in direct sunlight

Packaging

- 4, 10 and 20litre kits

Precautions

- Do not apply when surface or ambient temperatures are above 35ºC or below 10ºC.
- E60 cure rates will be dramatically reduced when applied in conditions below 10ºC or when the relative humidity exceeds 80%.
- Do not apply when raining or when rain is imminent
- Only mix the required amount of product that can be used within the 1-2 hour pot life.
- Do not apply E60 to surfaces where standing water is present.
- When sealing surfaces against negative hydrostatic pressure and rising damp, any running water must be first treated with **Gripset C-Plug**.
- Not to be used as a trafficable coating
- No to be used as a finished coating subject to permanent UV exposure
- When using for potable water storage applications, wash down cured E60 surface with clean water and dispel before filling.
- For advice on applications/situations not mentioned in the TDS contact RLA Technical Support

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. Safety Data Sheet (SDS) available

Technical Data

Form	Viscous liquid
Colour	Part A – Light Grey Part B – White
Finish	Dry – Semi gloss to matt
Water Vapour Transmission (2 x coats @ 300micron DFT) ASTM E96 Desiccant method	1.3g/m² /24 hours
Hydrostatic water pressure resistance	2.5bar

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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.

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