

EPOXY PRIMER & MOISTURE BARRIER

www.gripset.com

TECHNICAL DATA SHEET

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Description

Gripset E60 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. Able to be applied directly over damp surfaces and newly laid "green" concrete, screeds and renders, Gripset E60 displays excellent positive and negative hydrostatic pressure resistance. Once dried it provides a suitable surface for applying finished coatings including membranes and adhesives directly over. Suitable for use in internal, external, underground and immersed applications.

Features & Benefits

- * Excellent adhesion properties
- * Resistance on vertical & horizontal surfaces to negative hydrostatic conditions
- * Pot life 1-2 hours
- * Suitable for internal and external applications
- * Non-flammable, odourless and low VOC
- * Clean up with water
- * Compatible bonding surface for Gripset membranes, adhesives and other finishes

Application

- * Gripset E60 is suitable for commercial, industrial, and residential applications

Uses

- * Moisture barrier to negative sides of underground wall structures to prevent moisture ingress (basements, lift pits, retaining walls etc)
- * Protective primer over concrete and mineral surfaces containing residual dampness enabling application of finished coatings without blistering or delamination
- * Protection against rising damp and efflorescence on wall and floor surfaces to enable direct fixing of vinyl, carpet, tiles, timber, levelling compounds, screeds etc over
- * Protective coating over "green" or damp concrete to prevent water vapour transmission

Substrates

Substrates suitable for bonding Gripset E60 over include:

- * Concrete, masonry surfaces, renders, screeds.
- * Concrete blocks and aerated concrete.
- * Timber

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. Smooth shiny surfaces to be roughened or etched to enable optimal adhesion. Rough surfaces, voids, cracks (non movement), pitted areas, low points and deformed areas are to be evened or filled first (refer to Gripset 11Y repair mortar).

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, efflorescence, 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.

Application

Mixing:

1. Light stir parts A and B to ensure a homogenous consistency before mixing commences
2. Measuring by volume, add equal parts of Part A and Part B into a clean pail or mixing container. Using an electric stirrer with paddle attachment, thoroughly mix the 2 components at low-medium speeds for approximately 3 minutes until a homogenous consistency is formed
3. Allow the product to settle for 5-10 minutes after mixing before use

Coverage:

Vapour Block Primer /Efflorescence Prevention

Apply 1 x coat at a minimum coverage of 1 litre/3m².

Moisture Barrier

To provide optimum moisture inhibitor properties, against a negative head of pressure apply 2 x coats at a coverage of 1litre/3m² per coat

For the blocking of vapours and negative entry of moisture on vertical surfaces, running or dripping water must be first treated with a water plug. Do not apply Gripset E-60 to surfaces where surface water is present.

If the recommended coverage has not been achieved in 2 coats, apply further coats until the required coverage is formed

Important: Primer should be recoated within 24 hours to ensure optimum cohesion. Once the first coat of primer is tack free sufficiently to walk over it can be recoated

General:

- * Only mix the required amount of product that can be used within the 1 hour pot life
- * If applying over damp surfaces, areas must be free of surface water
- * If applying over dried surfaces including aged concrete, application of a fine water mist is recommended to lightly dampen the surface.
- * Over floor surfaces best results achieved using a squeegee or stiff nylon broom working the E-60 into surfaces to enable optimum absorption and penetration into the substrate. Ensure all pinholes and voids are filled/covered when using this method
- * Over vertical wall surfaces a medium-long nap roller is recommended
- * Based on surface porosity, the first coat of Gripset E-60 can be diluted with water. 5% dilution is recommended over porous surfaces and up to 10% for denser surfaces. The dilution with water is only recommended on the first coat. All subsequent coats to be applied in a neat state.

Note: Allow a minimum of 24 hours curing before the application of membranes, adhesives, mortars, levelling compounds and coatings.

Storage

- * 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.

Packaging

- * 10litre Kit - Part A & Part B in 5litre in plastic pails
- * 20Litre Kit – Part A 10litre of product in 20litre pail
Part B in 10litre plastic pail

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Precautions

- * Gloves and protection should be used when handling this material
- * Keep containers in well ventilated areas ensuring lids are correctly sealed
- * Ensure adequate ventilation while using and avoid inhalation of vapours
- * Shelf life is 12 months in unopened container
- * Do not apply when surface temperature is below 5°C or above 35°C.
- * Avoid spillage into water courses and drains where possible
- * Material Safety Data sheet (**MSDS**) available.
- * For further information about this product contact technical department of Gripset Industries.

Technical Data

Form	Liquid
Colour	Wet - Part A Grey Part B – Grey Dried – Semi gloss. Matt when aged
Drying Time: Based on ambient temperatures of 25°C and 50% Relative Humidity	Recoat: 2-4 hours Applying finishes over: 24 hours Full Cure: 7 days
*Drying/curing times may be prolonged in cooler temperatures	
Pot Life	1-2 hours
Volume solids	48%
Mixing ratio:	1:1 by volume
Wet film thickness:	300 micron/0.3mm per coat

VOC Content (ISO 13741)	9 grams/litre
The VOC Content of Gripset P10 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	

Water Vapour Transmission ASTM E96	15g/m ² 1 x coat 9g/m ² 2 x coats -300micron/0.3mm DFT
Adhesion to concrete ASTM 4541	8N/mm ²

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.