

VAPOUR BLOCK PRIMER & SURFACE ENHANCER

www.gripset.com

TECHNICAL DATA SHEET

techinquiries@gripset.com


Description

Gripset P10 is high performance one component compound that is designed to be applied over mineral surfaces such as screeds, concrete, masonry and general cementitious surfaces to prevent the rise or entry of residual dampness or active moisture vapour into the built environment. Gripset P10 is a moisture curing solvent free polyurethane resin that dries to the moisture present in surrounding air and in surfaces it is applied to. As a solvent free and odourless product, Gripset P10 will emit no dangerous toxins to the surrounding environment, ideally suited for internal or confined areas as a primer or protective coating.

In addition to the moisture blocking properties conditions, Gripset P10 can be used for consolidating cement screeds or concrete toppings that are mechanically weak due to defects, moisture or lack of binder. Also suitable as an anti-dust treatment for irregular, porous and dusty cementitious screeds.

Features & Benefits

- * Excellent adhesion properties
- * Resistance on vertical & horizontal surfaces to negative hydrostatic conditions up to 5 bar of pressure
- * Waterproof seal once cured
- * One component product, avoiding mixing and rapid setting wastage of 2 component primers
- * Suitable for internal and external applications
- * Can be sand filled for high build repairs
- * Solvent free, odourless and environmentally safe

Application

- * Gripset P10 is suitable for commercial, industrial, mining and residential applications

Substrates

Substrates suitable for bonding Gripset P10 over include:

- * Concrete, masonry surfaces, renders, screeds.
- * Concrete blocks and aerated concrete.
- * Timber sheeting, softwoods and hardwoods
- * Compressed fibre and cement sheeting
- * Please note on dense concrete surfaces, it is recommended to form an optimum penetrating compound by mixing Gripset P10 with ethyl acetate on a 4:1 ratio based on parts by volume. This penetrating compound should be applied as the first primer coat into the dense substrate. On porous substrates, use Gripset P10 neat.
- * Apply a second coat of Gripset P10 neat, without any addition of ethyl acetate. Apply primer in opposite direction to the first coat followed by 2nd coat mixing Gripset P10 1:1 with a fine dried wash sand. Measure parts based on volume.

Application

Vapour Block Primer

- * General coverage as a primer against moisture vapour is 200g/m² or 1 litre/6m².
- * Application by brush or roller. Allow 3-6 hours drying between coats of Gripset P10.

Moisture Barrier

- * To provide optimum moisture inhibitor properties, against head of pressure (max 5 bar) coverage is 400g/m² or 1 litre/3m².
- * 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 P10 to surfaces where surface water is present.

Surface Enhancer

- * Coverage is 200g/m² or 1 litre/6m² for anti-dust or surface consolidation applications
- * For extremely porous surfaces use coverage as per Moisture Barrier instructions above
- * For repair of undulating areas or high build applications (up to 3mm), Gripset P10 can be mixed with a **fine dried** wash sand at a mixing ratio of 1:5 measuring parts based on volume. Application required by steel trowel or spatula.

General Details

- * For applications where Gripset membranes are to be applied over Gripset P10, the addition of sand is not required
- * For applications where renders or coatings are to be applied over Gripset P10, the addition of sand is required. In this instance, Gripset P10 is to be mixed on a 1:2 ratio with a **fine dried** wash sand, measuring parts based on volume. Sand size of <600 micron will achieve best results.

Important: Gripset 11Y must be used as the proprietary bonding agent in the render mix

- * For applications with parquet or timber flooring, addition of sand in the 2nd coat is not required.
- * Allow minimum 24 hours drying before over coating with membrane or paint finishes

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Surface Preparation

All Surfaces must be prepared thoroughly before commencing application. All substrates must be structurally sound, stable and clean. Building surfaces are to be free of sharp protruding surfaces, 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. Remove all surface dust by vacuum to ensure substrates are free of all foreign matter

Structurally unsound layers and surface contaminants are to be mechanically removed by abrasive blasting, blast tracking, grinding or equivalent methods. For thorough surface preparation, refer to Gripset SC (algae and moss remover) and Gripset DG (water based oil degreaser) products.

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 metal tin

Precautions

- * Maximum allowed humidity or residual moisture in surface is 5% (measured with carbide hygrometer)
- * Not designed for prolonged UV exposure. For external areas, finish over within 48 hours.
- * If adding sand into P10 ensure sand is dry and free of moisture
- * Not to be used as a finished sealer coat in external applications
- * Do not apply when surface temperature is below 5°C or above 35°C.
- * Material Safety Data sheet (**MSDS**) available.
- * For further information about this product contact technical department of Gripset Industries.

Technical Data

Form	Liquid
Colour	Slight yellow transparent liquid
Specific Gravity	1.15gr/cc
Drying time	Re-coat: 3-6 hours Membrane finishes: 24 hours
Water pressure test (UNI EN 12390-8)	5 bar – no penetration

VOC Content (ISO 13741)

Nil

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

Resistance Test

Resistance to Alkaline solutions (pH 11) - EN 14187/6	No change after 21 days
Resistance to Acid solutions (pH 4) - EN 14187/6	No change after 21 days
Resistance to other solvents - Test fuel II solution - EN 14187/6 70% Isooctane: 30% Toluene	No change after 21 days
Resistance to other solvents All Hydrocarbons solution EN 14187/6 60% Toluene: 30% Xylene: 10% Methylnaphthalene	No change after 21 days
Temperature resistance	From - 40°C to 80°C
UV resistance 1000hours	Resistant to UV. Tendency to yellow after prolonged exposure - no negative impact on performance
Asphalt Application	Good adhesion to asphalt surfaces

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.

Gripset Industries Pty Ltd

ABN: 64 137 930 093
Telephone: +61 (8) 8124-7300 or 1800 650 435
Email: techenquiries@gripset.com
Website: www.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.