

LATEX WATERPROOFING ADDITIVE AND ADHESION ENHANCER

www.gripset.com

TECHNICAL DATA SHEET

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Description

Gripset 11Y represents the latest in SBR latex technology. Specifically formulated for use in cement based compounds, Gripset 11Y will enhance adhesion, strength and waterproof properties of screeds, renders and general cementitious toppings.

Gripset 11Y is able to be used in areas exposed to weather, chemicals, continuous immersion, internal and underground areas. Gripset 11Y when used with Gripset DM can be used, and is certified to AS/NZ 4020 for use in potable water storage facilities. Suitable for remedial applications and new construction.

Features & Benefits

- * Improved adhesion strength
- * Reduced water/cement ratio
- * Increased flexural strength and durability
- * Improved water resistance and waterproof properties
- * Improved crack, frost and salt resistance
- * Reduction of permeability to gases and liquids
- * Higher early strength development & reduced shrinkage
- * Improved resistance to aggressive conditions
- * Excellent resistance against freeze/thaw cycles and de-icing salts
- * Improved workability at reduced water demand
- * Improved abrasion resistance
- * Solvent free, non toxic and environmentally safe

Application

- * Gripset 11Y is suitable for commercial, industrial, mining and residential applications.

Waterproofing Uses

- * Primer & sealing slurries
- * Repair mortars
- * Cement based corrosion protection
- * Waterproof renders, screeds
- * Waterproof fillets & Patch mortar
- * Potable water storage facilities, retention and water tanks
- * Grout and cement based adhesive additive

Substrates

Substrates suitable for Gripset 11Y applications include:

- * Masonry surfaces, renders, screeds.
- * Concrete blocks and aerated concrete.
- * Clay bricks and pavers.
- * Dense concrete
- * Cement sheeting, plaster board and general wet area linings.
- * Marine plywood and wet area particle board.
- * Asphalt and cured bitumen surfaces.
- * Existing acrylic coatings and Gripset membranes.

Before using over existing paints, membranes, coatings or other surface finishes contact technical department of Gripset Industries for correct advice on surface preparation and suitability.

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. Rough surfaces are to be evened or filled first (refer to Gripset 11Y). 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, 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. For thorough surface preparation, refer to Gripset SC (algae and moss remover) and Gripset DG (water based oil degreaser) products.

When using as:

A Primer and Sealing Slurry

- * Measuring parts based on volume, mix 1 part of cement + 1 part of fine sand + 1 part of Gripset 11Y.
- * Stir slowly to form a slurry consistency and allow 3-4 minutes to settle before lightly re-stirring.
- * Brush apply to form a thickness of 0.5-1.0mm.
- * Coverage of slurry primer is 1 litre of Gripset 11Y per 3m²

Note: Very porous surfaces to be dampened prior to application.

Waterproof Thin Build Coatings

- * For waterproof thin build coatings using Gripset DM powder, add 2 litres of Gripset 11Y per 20kg bag of DM and commence mixing. Add water to adjust viscosity as required.

Note: Prior to applying thin build coatings, 11Y slurry primer must first be used over surfaces. Apply coating onto a wet or damp primer as a "wet on wet" application.

2mm Skim Coat	6.5m ²
3mm Skim Coat	4.25m ²
4mm Skim Coat	3.25m ²
5mm Skim Coat	2.5m ²

* Coverage is based on 20kg bag of Gripset DM or site mix alternative

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High Bonding Water Resistant Screeds and Renders

- * Measuring parts based on volume, mix 1 part of cement to 3 parts sand (fine wash grade). If using lime with the render/screed mix, ensure volume to be added is no greater than 20% of cement.
- * Form a mixing liquid consisting of Gripset 11Y and water at a 1:3 ratio, and mix into the sand/cement compound to form the desired consistency for the application.

Note: prior to applying render/screeds, 11Y slurry primer specified above must first be used over surfaces. Apply render/screed onto a wet or damp primer as a "wet on wet" application.

10mm	600ml of 11Y per m2
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**Based on 3litres of mixing liquid per 20kg of dry mix

To improve water resistance and adhesion of cement based adhesives and grouts:

- * Form a mixing liquid consisting of Gripset 11Y and water at a 1:3 ratio.
- * Mix into the dry compound and stir slowly to form the desired consistency for the application.
- * For immersed areas, a 1:2 ratio is recommended.

Storage conditions

- * 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

- * 5 litre and 15 litre pails; 200 litre drums and 1,000 litre IBC

Precautions

- * When using for bonding agent applications, ensure sand is a sharp wash grade. Fresh Portland cement should be always be used, cool and free of lumps. When using as a waterproof render/screed (as detailed above), this is to be applied over a wet coat of primer slurry (as detailed above).
- * Do not use on glass or glazed surfaces.
- * Do not apply over curing compounds, wax/oily surface, fibreglass, plastic or silicone treated surfaces.
- * Not to be used as primer for areas with rising moisture or negative hydrostatic pressure
- * Not to be applied over raw steel or metals unless otherwise specified in this data sheet.
- * Although this product is non hazardous and water based, contents should not be swallowed or inhaled. In case of eye contamination, rinse with clean water and seek medical advice.
- * Material Safety Data sheet (MSDS) available.
- * For further information about this product contact technical department of Gripset Industries.

Technical Data

Appearance	White
Form	Thin Liquid
Specific gravity	1kg/litre
pH	8-9

Bond Strength to concrete	1.3MPa
Flexural Strength	6.1MPa
Compressive Strength	11MPa

*Data based on mixing Gripset 11Y with Gripset DM (3 parts dry to 1 part liquid)

Potable Water Storage Approval - AS/NZ 4020 - 2005	Certified
VOC Content (ISO 13741-1)	0.5g/litre

The VOC Content of Gripset 11Y 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

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.