



Description

Gripset C-1C is a cement based waterproof compound consisting of unique actives that when applied to concrete penetrate the substrate to form an insoluble crystalline structure within the pores and shrinkage cracks of concrete. These crystals continue to grow filling voids and pores of concrete forming a barrier to water ingress, including water under pressure. Applied as a cement based slurry coat, once applied to the surface and dried, Gripset C-1C continues to enable the concrete to breathe allowing vapour through the concrete structure.

Suitable for waterproofing concrete in both below ground and above ground areas, Gripset C-1C reduces the porosity of concrete by reducing the volume and size of capillary pores within the concrete substrate while improving the overall strength and durability of concrete..



Features & Benefits

- * Penetrates into the surface sealing micro cracks, concrete pores and capillaries
- * Becomes an integral part of the concrete enhancing strength and durability
- * Waterproof, withstanding continuously wet environments * Can be applied on both sides of concrete, withstanding positive and negative water pressure
- * Reduces concrete shrinkage and cracking * Ability to apply over damp and "green" concrete
- * Highly resistant to sulphates in underground environments
- * Protects against chlorides, sea water and varying pH levels of water
- * Easy application, low labour cost application

Application

Gripset C-1C is suitable for civil, commercial, and residential applications.

Waterproofing Uses

- * Basement walls – internal & external sides
- * Retaining walls
- * Foundations
- * Lift pits
- * Water retention structures
- * Dams, canals and tunnels
- * Concrete exposed to marine environments and chlorides



Substrates

To be applied over rigid concrete substrates. Not designed for concrete surfaces exposed to flexing or frequent movement. For further information on suitable surfaces and substrates contact technical department of Gripset Industries for correct advice on surface preparation and suitability.

Surface Preparation

Concrete surfaces must be prepared thoroughly before commencing application. All concrete must be structurally sound and clean free of laitance and any surface residues or existing coatings, treatments. Ensure the surface has an open capillary surface to ensure good absorption of the slurry when applied. For sealed, smooth or dense concrete, open pores by sandblasting, water blasting or etching.

All active leaks should be sealed and repaired with Gripset C-Plug prior to commencing application. Damaged concrete or honeycombed concrete is to be repaired and filled with Gripset C-Bed mortar or using Gripset 11Y/DM enhanced mortar.

Surfaces must be dampened or wetted before applying Gripset C-1C, free of surface water.

Application & Coverage

Mixing

1. Gripset C-1C consists of a 20kg bag dry powder. Sealing slurry is formed by mixing approx. 1 part of clean water to 3 parts powder.
2. Add required Gripset C-1C to a clean pail. Slowly add water and mix on low speed using a drill and paddle attachment.
3. Continue to mix for 2-3 minutes until the mixture is free of lumps and a smooth slurry consistency is formed. Addition of water may vary depending on application conditions, if required water can be increased or reduced to powder to form slurry consistency.
4. Allow to settle for 1-2 minutes and lightly re-stir before use.

Note: Pot life is approx. 20 minutes so volume mixed should not exceed what will be used within 20 minutes. Once product has dried or settled, do not re-mix. Remove the residue and commence a fresh batch

Gripset C-1C is best applied by stiff fibre bristle brush to aid penetration into surface pores. Brush liberally and do not extend as per paint, brushing in one direction to leave a uniform slurry so surface cannot be seen. Best results achieved in 2 coats.

Coverage:

First Coat: 0.8-1.0kg/m²

Second coat: 0.6-0.8kg/m²

Total coverage should be approx. 1.6kg/m².

IMPORTANT

Second coat should be applied within 4 hours of the first coat ensuring first coat is still slightly damp before reapplying. Do not allow the first coat to fully dry before applying the second coat.

Upon completion of application the area treated should be kept damp for 5 days and must be protected against direct sun, wind, frost and any site spillages. Best to keep damp covering with polyethylene film, damp fabric sheeting.

Do not apply Gripset C-1C at temperatures below 5°C or to concrete surfaces affected by frost or frozen. Not recommended to be applied to surfaces with temperature exceeding 35°C, must ensure surfaces remain damp during application.

Storage conditions

- * Best stored at room temperature.
- * Avoid cold freezing conditions and off concrete floors.
- * Do not store in direct sunlight.
- * Shelf life: 12 months in unopened packaging

Packaging

- * 20kg bag

Precautions

- * Not to be applied over non porous surfaces. Refer Gripset C-1P
- * NOT designed to be finished over with renders, tile adhesives, self-levellers etc
- * All active leaks should first be repaired first using Gripset C-Plug.
- * Clean up with water while wet. Once dried product needs to be removed mechanically
- * Pot life when mixed is 20 minutes however this may be reduced in warmer weather
- * Rubber gloves, protective eye wear and face cover should be worn when mixing and applying product
- * Application is buy stiff bristle brush. Do not use paint rollers.
- * For further information about this product contact Gripset Technical Services

Clean up

- * In water while wet.
- * Once dried product needs to be removed mechanically or by solvent

TECHNICAL DATA

Appearance	Grey powder
Form	When mixed – grey viscous slurry When dried – grey film
Drying	Dry Film: 2 -4 hours Recoat: Within 4 hours - or until 1 st coat is dry enough not to be disturbed when over coating) Full cure: 4-5 days Exposure to water pressure: 7 days
<small>Based on normal ambient temperatures of 20°C *Temperature, humidity and porosity will vary dry times</small>	
Mixing ratio	1 part water to 3 parts powder
Adhesion to concrete	1.7MPa
Water Permeability (DIN1048: Pt 5 '91)	Tested to 5 bar – water penetration @ 0 to an average of 6mm

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.