

RAPID SET CEMENTITIOUS WATER PLUG

www.gripset.com

TECHNICAL DATA SHEET

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Description

Gripset C-Plug is a rapid setting, non shrink cement based compound that forms an instant waterproof seal against active water leaks under pressure. C-Plug is ideal for active water leakages through holes, cracks and similar openings in concrete and masonry surfaces.

Features & Benefits

- * Stops active water leaks and flowing water providing an instant waterproof seal.
- * Rapid set time in 1-3 minutes
- * Non shrink formulation
- * Cures to form mechanical strength of concrete
- * Does not promote corrosion of steel reinforcement
- * Non toxic, non staining and free of dangerous odours
- * Can be sanded/grinded to existing structural contours
- * Suitable for use with Gripset C-1P in subterranean areas subject to negative water seepage

Application

- * Gripset C-Plug is suitable for commercial, industrial, rural and residential applications

Uses

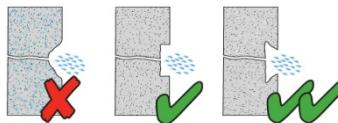
- * Water Tanks and water retention structures
- * Basements, cellars, underground car parks
- * Lift shafts and lift pits
- * Concrete pipes
- * Tunnels, power stations and sewer systems
- * Joint filling between concrete segments including pipes, culverts, tunnels, mines etc
- * Waterproof, pressure resistant fillets at wall/floor junctions in water retaining structures when used in conjunction with Gripset C-1P
- * Rapid set anchoring of bolts, fixtures, conduits, pipes and sanitary equipment

Substrates

- * Suitable for concrete and masonry substrates

Surface Preparation

- * Surfaces are to be free of, 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.
- * Cracks, joints or holes in affected areas to be cut/grinded open to minimum width and depth of 20mm. For high volume leaks increase depth to minimum 40mm
- * For optimum results cut sides square or form a dove tail section where possible
- * Surface to left rough with good mechanical key avoiding smooth and feather edge finishes
- * Flush area with water to ensure all loose surface particles and foreign matter is removed to maximise adhesion
- * Treated areas must be dampened with clean water prior to application of Gripset C-Plug



Application

Mixing water used is to be approx 20°C to enable correct strength development.

The mixing of product is to be done by hand using spatula or similar - avoid using electric stirrers or paddles mixers.

A maximum of one handful, equivalent to approximately 0.5kg of powder is recommended per application.

As a guide allow approximately 150mls of mixing water per 1kg of product. **Note:** This may vary based on ambient conditions.

Mixing

1. Place Gripset C-Plug powder into an empty pail and add water. Mix quickly to form a paste/putty mortar consistency
2. Using a gloved hand hold material until a slight warmth is felt or signs of setting occur.

Installation

1. Press C-Plug into the opening and apply firm pressure. Setting time is approximately 30 seconds to 1 minute. Once set slowly remove hand.
2. Final setting time is 2-4 minutes.
3. Once the Gripset C-Plug has set, dampen with clean water by mist or damp sponge for 15 minutes

Note: Cold temperatures may result in a slower curing rate. Warm water may assist in avoiding slower, prolonged curing times

General

- * For sealing larger areas, work from the outside to the centre following the instructions above until the total area is covered with the Gripset C-Plug
- * Once the active leak has stopped, Gripset C-Plug set is able to be sanded/grinded to existing structural contours
- * For active leaks between wall/floor junctions, cut out the crack/joint at a minimum 20mm wide, cutting back slightly into the wall results achieved filling in the prepared joint and creating a 45°cove at approximately 40mm wide.

Membrane System

For long term protection against future dampness and seepage, cover Gripset C-Plug with Gripset C-1P flexible cementitious membrane

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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 original unopened packaging.

Packaging

- * 4kg and 15kg bags (in pails)

Precautions

- * Not to be used as a sealant/filler over expansion/movement joints
- * Not suitable for use over non-cementitious surfaces
- * Note to be used over frozen surfaces. Ensure concrete/masonry surfaces exposed to freezing conditions are free of ice.

Clean up

- * Clean up with water while wet
- * Once dried product needs to be removed mechanically

Technical Data

Appearance	Grey
Drying	Initial Set: <2 minutes Final set: 2-4 minutes
<i>Note: Set time will be dependent on ambient conditions and water temperature</i>	
Wet Density (kg/m ³)	2150
Compressive strength @ 30 minutes	8MPa
Compressive strength @ 28 days	35MPa
<i>Note: Compressive strength is dependent on mixing water and ambient conditions</i>	
Tensile Strength @ 28days	3.0N/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.