

## Description

Gripset C-Stone is a fast set high strength adhesive designed for use with Class (A) moisture sensitive stone. Polymer modified white adhesive, the rapid set time along with non slip and non slump properties enable C-Stone to be a cost effective commercial grade selection for moisture sensitive stone applications. C-Stone allows tiles to take light foot traffic after 4 hours.

Gripset C-Stone meets C2S1FTE classifications, suitable for wall and floor applications in both exterior and interior areas. Also suitable for use over a range of Gripset waterproofing membranes systems.



## Features & Benefits

- Off White
- Designed for Class (A) moisture sensitive stone
- Non-slump
- Fast setting, light foot traffic after 4 hours
- Flexible
- Commercial grade
- Meets C2S1FTE classifications
- Low VOC
- Can be used directly over Gripset waterproofing membranes  
*Check with Gripset Technical Services for specific details.*

## Substrates

Substrates suitable for bonding Gripset C-Stone over include:

- Concrete
- Masonry renders
- Screeds
- Plasterboard linings
- Fibre cement surfaces
- Gripset membrane systems
- For further information on suitable surfaces and substrates contact Gripset Technical Services for correct advice and suitability.

## Surface Preparation

Surfaces must be prepared thoroughly before commencing application. All substrates must be structurally sound, smooth, stable, dry, and clean.

Rough surfaces and voids to be evened or filled first and all brick/block surfaces to be pointed flush and rendered over. (refer to Gripset 11Y for concrete/masonry repairs). All general surface defects to be repaired.

Building surfaces must be constructed to manufacturer specifications and relevant building standards in force at time of application.

All surfaces are to be free of sharp protruding objects, 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.

Gripset primers should be referred to for use on various surfaces.

## Concrete, Screeds and Rendered surfaces

Concrete slabs are to have a wood float finish and be cured for a minimum 28 days as per AS3958.1-2007. The variation plane of concrete must not exceed 5mm in 3m on floors and 4mm in 2m on walls. Steel finished concrete is to be primed using Gripset OP or can be mechanically roughened.

Screeds and renders are to be cured for a minimum 16 hours before tiling over.

## Plasterboard and Fibre Cement surfaces

All linings and floor sheeting products are to be fixed to manufacturer's specifications.

Porous surfaces are to be primed using Gripset GP primer. Nonporous surfaces such as Scyon are to be primed with Gripset OP primer.

## Movement and expansion joints

All tiling is to be carried out to AS3958.1 – 2007 which includes all expansion and movement joints when tiling.

Movement joints are to be formed from the substrate and through the tile bed, continuing up to the face of the tile. Ensure movement joints are kept clean, free of foreign matter, dirt adhesive droppings, tile spacers etc. Joints are to be formed at a minimum of 6mm wide and no greater than 10mm, then filled using a suitable compressible sealant designed for movement joints.

Movement joints must be formed:

- Every 4.5m when tiling externally
- Every 6m when tiling internally
- Around the perimeter of floor areas
- Over any existing joints that are present in the floor substrate  
At junctions or abutments between 2 different surfaces e.g. concrete/timber; masonry/plasterboard or similar
- Around all fixtures or cuts in the substrate e.g. columns
- Internal vertical corners
- Changes in direction of tiling at variations of storey height -  
Over all new or existing movement joints

For any further confirmation on tiling over expansion or movement joints, refer to AS3958.1-2007 before tiling.

## Mixing, Applying and Coverage

Gripset C-Stone 20kg bags require 5 litres of water.

When mixing use a clean pail and ensure clean water is used. Add the dry powder to water. Using an electric stirrer with paddle, mix until the powder and water form a consistent lump free mixture. Allow the adhesive to settle for 2-3 minutes, lightly re-stir and then use for desired application.

Apply the adhesive to the surface using a notch trowel. Depending on type and size of tiles will determine the size notched trowel to be used. In general floor tiles will require a 10mm notch trowel and wall tiles a 6mm notch trowel.

Gripset C-Stone can be used from a bed thickness of 2mm -10mm, dependent on types of tiles being used. Tiles are to be firmly pressed into the freshly trowelled adhesive bed. It is recommended to slide the tile at a right angle to the notch lines ensuring 100% coverage is reached on rear of tiles.

Rears of tiles with lugs or an uneven backing will need to have the buttered method used on rear of tiles along with notching adhesive to the surface. AS3958.1-2007 A Guide To The Installation of Ceramic Tiles is to be referred to for fixing methods.

Coverage of Gripset C-Stone:

- 5-6m<sup>2</sup> on floors using a 10mm notch trowel

Coverage will vary depending on the surface condition, type of tile and application technique.

## Storage

- 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 bags

## Precautions

- Not recommended for direct use over timber flooring. Refer to Gripset Technical Services for surface preparation on timber.
- Suitability of C-Stone for type of stone to be verified by stone supplier or tested prior to installation of stone.
- Do not apply in temperatures below 5°C or above 35°C.
- Do not allow notched tile adhesive to "skin", ensure tiles are bedded into a wet bed of adhesive to enable full contact with rear of tiles.
- Open time is 35 minutes and adjustment time is approx. 60 minutes. This can vary with different site conditions and climates. Only spread enough adhesive that tiles can be fixed while the adhesive is still wet.
- Gripset C-Stone consists of cement products which may contain crystalline silica, therefore when using this product precaution must be taken to prevent long term exposure to dust.
- As a cement based product the powder is alkaline so wear gloves and protective eye wear when using.
- Safety Data sheet (SDS) available.

## TECHNICAL DATA

<b>Colour</b>	White
<b>Application Properties at 20°C and 50% RH</b>	
<b>Open time</b>	30 minutes
<b>Adjustment time</b>	35 minutes
<b>Ready for grout</b>	2 hours
<b>Light foot traffic</b>	4 hours
<b>Pot life</b>	40 minutes
<b>Suitable for under floor heating</b>	Yes
<b>Classification</b>	C2S1FTE

## 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.