GRIPSET® C-Stone

MOISTURE SENSITIVE STONE ADHESIVE

TDS

TECHNICAL DATA SHEET

Description

GRIPSET C-STONE is a white, polymer modified, fast set, high strength adhesive designed for use with Class (A) moisture sensitive stone. Featuring rapid set times along with non-slip and non-slump properties, C-Stone is a cost effective commercial grade adhesive option for moisture sensitive stone applications , general internal and external wall and floor tiling and projects where fast turnaround times are required.

Features & Benefits

- Rapid set – allows foot traffic after 4 hours
- High strength
- Excellent non slump and flexible properties
- Meets C2S1FTE classification
- Can be used over green screed, render and early age concrete

Uses

- For bonding Class (A) moisture sensitive stone
- Floor and wall tiling to internal and external areas
- Internal/external wet areas
- Fixing porcelain and vitrified tiles, porcelain, mosaics, and natural stone
- Domestic and commercial applications requiring fast turnaround required
- Immersed areas - pools, spas and water features
- Underfloor heating applications

Substrates

Substrates suitable for bonding Gripset C-Stone over include:

- Concrete
- Screed & Render
- Rendered masonry
- Blockwork
- Plasterboard linings
- Fibre cement sheeting
- Gripset waterproofing membranes

For further information and advice on surface/substrate suitability and preparation contact RLA Technical department

Surface Preparation

- All surfaces are to be clean, sound, smooth, dry, and free from loose material, dirt, dust, oil, grease, wax residues, laitance, curing compounds, release agents, existing coatings, moss, algae, sharp protruding objects and general surface contaminants that may compromise the adhesion of the overlaid adhesive system
- Structurally unsound layers and surface contaminants to be mechanically removed by grinding, abrasive blasting or equivalent methods.
- Surface defects including voids, holes, pitted sections, heavy undulations and non-structural cracks to be filled and levelled. Refer to Gripset 11Y enhanced repair mortar or the RLA range of repair mortars for options
- Building surfaces must be fit for purpose and constructed to manufacturer's recommendations and relevant building standards in force at time of application
- Ensure all concrete slabs are allowed to cure for at least seven days, have a wood float finish and a minimum compressive strength of 20MPa
- Steel-trowelled, burnished and dense concrete surfaces must be mechanically abraded to roughen surfaces and provide a key before commencing tiling. Alternatively, surfaces can be primed with GRIPSET OP PRIMER
- Rendered and screeded surfaces must be allowed to cure for at least 24 hours before commencing tiling.
- Existing tiled surfaces must be well bonded, sound and secure. Surface of tiles to be mechanically abraded/roughened to remove at least 80% of the tile glaze for direct fixing. Alternatively, prime tiled surfaces with GRIPSET OP PRIMER

Priming

Highly porous and non-porous surfaces to be primed before installation of C-Stone

POROUS/ABSORBENT SURFACES

GRIPSET GP PRIMER.

Apply by brush or medium nap roller at a minimum coverage of 1litre/8-10m²

NON POROUS/NON ABSORBENT SURFACES

GRIPSET OP PRIMER.

Apply by brush or medium nap roller at a minimum coverage of 1 litre per 12m²

NOTE: Refer to Gripset primer data sheets for specific application and coverage details

Mixing

- The mixing ratio of C-Stone is 5litres of water per 20kg bag
- Pour clean water into a clean pail and gradually add the C-Stone while mixing continuously until a smooth, lump-free consistency is obtained.
- Always add powder to the liquid.
- Allow the mix to stand for 3 minutes and re-stir before applying the adhesive onto the substrate

Application

- All preparation and tiling should be carried out in accordance with AS 3958
- Once the surface has been suitably prepared, apply the adhesive onto the substrate using an appropriately sized notched trowel for the tile size
- For tiles larger than 300 x 300mm back-butter the tiles in addition to notching the floor
- With Clip systems use a 12,15 or 20mm notch and back butter the tile to ensure coverage complies with the standard
- C-Lite should be applied onto the substrate at a rate of 1m² at time. Application rates greater than this can result in the adhesive skinning before the tiles are laid into it
- Once the adhesive skins do not lay tiles, remove & re-apply fresh adhesive
- When placing the tiles, press them into the wet bed of adhesive by using a sliding action. Ensure no voids occur and full coverage of adhesive is under the tiles
- Periodically lift a tile to ensure there are no voids beneath the tile.
- Tiles are to be fixed into a full wet bed of adhesive. DO NOT SPOT FIX.
- For tiles with lugs, grooves or uneven backing it may be required to butter the back of the tile with adhesive in addition to trowelling the adhesive onto the substrate.
- The final bed thickness of the adhesive should be at least 2mm for wall tiling and 3mm for floor tiling.
- Once the tiling is completed do not disturb the tiled surface for at least 24 hours at 20°C

Expansion/Movement Joints

- Movement joints to be installed as per AS 3958

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Grouting

- Grouting application can commence after adhesive has cured for 2 hours
- Any adhesive that has leached into the grout joint must be raked out with a knife/spatula etc. prior to grouting
- Protect tiling from rain and inclement weather until 24 hours after grouting is complete*

***Always refer to grout manufacturers details for specific drying times. Drying times may be extended in humid conditions and colder temperatures**

Coverage

- Approximately 5-6m² with a 10mm notched trowel

Dry Times

Open Time	30 minutes
Adjustment time:	35 minutes
Pot Life	1 hour
Ready for grouting:	2 hours
Light foot traffic:	4-6 hours
Wet Area service	3-4 days
Immersed Areas	7 days

Important: :
Drying times are based on ambient temperatures @ 23°C and 50% RH.
Drying times may vary subject to ambient/surface temperatures, humidity and substrate porosity.
Drying/curing times will be extended in cooler conditions and periods of high relative humidity

Clean Up

- Excess adhesive from the face of the tiles can be cleaned up with a damp cloth or sponge while the adhesive is still in a wet state
- Tools and other equipment can be cleaned using water while the adhesive is still wet.
- Dried adhesive to be removed mechanically

Shelf life and Storage

- 12 months when stored in original unopened packaging
- Avoid freezing conditions and off of cold floors
- Best stored at room temperature
- Do not store in direct sunlight

Packaging

- 20kg bags

Precautions

- Do not apply when surface or ambient temperatures are below 5°C or above 35°C
- Not recommended for fixing tiles directly onto timber floors
- Not suitable for some moisture-sensitive stones such as green marble or some limestone classified as Classes B or C that are considered moisture sensitive and dimensionally unstable.
- As Natural stone can vary between batches and suppliers, RLA recommends checking with the Stone supplier before using the correct adhesive type and trying a small area to check the moisture sensitivity of the Stone.
- For further information about this product contact RLA Technical Department

Health & Safety

For information and advice on the safe handling, first aid, storage and disposal of chemical products, users must refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data. Safety Data Sheet (SDS) available

Technical Data

Form/Colour	White powder
Bulk Density	1.18kg/dm³

Application

Maximum adhesive bed thickness	30mm

Performance as per ISO 13007

Tensile adhesion strength after	
28 days	≥2MPa
Water immersion	≥1MPa
Freeze/thaw	≥1MPa
CLASSIFICATION	**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. 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 RLA Technical Services before commencing the application. A written confirmation will then be issued by RLA Technical Services.

RLA POLYMERS

GRIPSET SEALED FOR GOOD

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Warranty Statement:

RLA Polymers guarantees this product against manufacturing defects and guarantees it to be manufactured to our published specification.
We certify that this product is suitable for use when fully cured and will perform as described in our technical data sheet or other published materials.
RLA Polymers will replace the product free of charge when purchased from any legally verifiable source and where the product is proven to have been stored, handled, and install according to instructions published on our packaging and within the stated shelf life. The Installation of all materials must be carried out in accordance with relevant Australian Standards.
Warranty doesn't apply if damage, loss, failure to follow instructions, or other circumstances are out of our control.
Sufficient time and access to investigate any complaint must be accorded to RLA Polymers.
The consumer is responsible for any expenses incurred in making a claim.

Australian Consumer Law:

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality, and the failure does not amount to a major failure. The benefits under our warranty are in addition to other rights and remedies available to the consumer under the law in relation to the goods and services to which the warranty relates.

Disclaimer:

All statements and technical information contained herein are based on tests we believe to be reliable, but the accuracy thereof is not guaranteed.
Users assume all risk and liability resulting from the use of the product and must confirm the suitability thereof by their own tests. Conditions of Sale contain a limited warranty against manufacturing defects.

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