

## Description

Gripset C-Level is a rapid drying, fibre reinforced high performance cementitious self-levelling compound with excellent flow properties designed for new or existing internal/external concrete substrates and internal timber flooring substrates. It develops smooth surfaces with high levels of mechanical resistance suitable for commercial areas and the subsequent installation of floor coverings. Gripset C-Level is compatible with various surface finishes and Gripset's full range of waterproofing products. Gripset C-Level can be applied from 3mm-30mm in a single application.

The material properties of C-Level are classified as CT-C40-F8 according to EN 13813

Conveniently available in 20kg bags, Gripset C-Level provides enhanced workability and superior finishes for new and remedial applications.



## Features & Benefits

- Time-saving - fast drying and ready for direct use.
- It does not require additives or admixtures
- Ideal for use over timber substrates
- Use over Underfloor heating
- 3mm to 30mm application range
- Superior compressive strength over 40 MPa
- Suitable for commercial and industrial areas

## Recommended Uses

For use in commercial, domestic and industrial applications. It can be applied as a wear surface finish for commercial applications, provided suitable coating is applied. It is ready to accept most floor coverings after approximately 18- 24 hours. It allows for quick and reliable installation and areas subjected to heavy traffic and high point loading after 48 hours. Installations of Timber floorcoverings can take place 24 hours after application. Once dry, it is suitable for applying vinyl, timber flooring, carpets, linoleum, and tile floor finishes. C-Level is suitable where good resistance to loads is required, also for wheelchair traffic and underfloor heating systems. When installing Timber Flooring over a concrete substrate, the levelling coat of C-Level must be no less than 5 mm. When installing in areas as a wear surface, the minimum application of C-Level is no less than 5mm. In areas subjected to heavy traffic and high point loading, it is recommended the minimum application of C-Level is no less than 15mm.

For further information on suitable surfaces and substrates, contact the technical department of Gripset Industries for correct advice on surface preparation and suitability.

## Surface Preparation

Subfloors must be dry, sound, clean and following the relevant Floorcoverings Australian Standards. Subfloors must also be free of wax, grease, oil, polishes, old adhesive, curing compounds, high moisture levels, and any other surface contaminants that may affect adhesion. If mechanical preparation is required, prepare the floor using recommended preparation methods such as shot blasting, diamond grinding to provide a roughened, clean, sound, and open porous surface. Thoroughly vacuum loose material and dust. The minimum subfloor temperature before commencing installation should be 10C0. Do not use solvents or acid etching to clean the subfloor. Concrete floors must be dry sound, smooth and clean, following relevant Floorcoverings Australian Standards. For subfloors that display high moisture levels, it is recommended Gripset E60 be applied. Please get in touch with Gripset Technical Department for further details. Where temperatures below 5 C0 or greater than 35 C0 are encountered, please contact Gripset Technical department for more information.

### Timber Floors:

Timber flooring must be solid, sound, clean, free from wax, oil, free from gaps and securely fixed and following the Timber Flooring Manufacturers Instructions and relevant Australian Standards. Before levelling Timber Flooring, please ensure the flooring is solid, firmly fix any loose boards that need to be re-nailed or repaired before levelling. Please note: Timber flooring may be coated with a resin or waterproof protective layer. Particleboard flooring contains wax coatings or sealers and can affect adhesion to applied finishes. These resins, sealers, wax coatings must be removed by mechanical means before applying a primer. Ensure substrate is vacuumed before using a primer. Check the humidity content with a hygrometer or an electric moisture meter to ensure compliance with the Australian Standards before commencing work. Subfloor cross-flow ventilation must be adequate and following the relevant Australian Standards to prevent the build-up of dampness.

## Priming

**Gripset GP primer** – for general porous building surfaces. Brush or roller apply Primer to total surface area at a minimum coverage of 1 litre per 6m<sup>2</sup> and allow drying for no more than 30 minutes once wet film dries to a clear transparent coating.

**Gripset OP primer** – for non-porous, smooth and dense surfaces. Brush or roller apply Primer to total surface area at a minimum coverage of 1 litre per 12m<sup>2</sup> and allow to dry for 1 hour.

**Gripset E60 primer** – for surfaces with residual moisture or subject to rising damp.

For residual moisture, Apply 1 x coat at a minimum coverage of 1 litre/3m<sup>2</sup>. To provide moisture barrier properties against a negative head of pressure, apply 2 x coats at a coverage rate of 1litre/3m<sup>2</sup> per coat. E60 must be sand seeded while still in its wet state to promote Gripset C- Level adhesion. Allow Primer to dry for a minimum of 24 hours before applying C-Level.

Refer to individual product data sheets for specific details.

## Detailing

Gripset C-Level is not to be applied over floor movement joints. Ensure joints are maintained.

\*Refer to Gripset Elastoproof Joint Band for waterproofing of movement joints.

## Mixing

C-Level requires 3.8 – 4.0 litres of water per 20kg bag. Accurately pre-measure the required water and add to the mixing bucket. Slowly add the powder to the water whilst continuously mixing. Using an electric mixing drill with a high shear stirrer or a spiral mixing paddle, mix the contents for 3-4 minutes, ensuring a uniform homogenous consistency.

**DO NOT MIX BY HAND. DO NOT ADD EXCESS WATER: A WATER LEVEL OF GREATER THAN 4.0 LITRES PER BAG WILL RESULT IN SEGREGATION AND BLEED AND A POWDERY SOFT SURFACE.**

C-Level may be applied using a continuous automatic pump such as a Putznecht or Putzmeister. (Consult RLA for additional information) Only mix the quantity of material that can be used within the working time of the material. Apply the C-Level immediately after completion of mixing. Ensure subsequent mixers are ready to allow for continuous, uninterrupted pouring onto the entire surface.

**DO NOT REWORK OR RETEMPER ANY PARTIALLY SET PRODUCT. DISCARD ANY MATERIAL THAT HAS STIFFENED, HARDENED OR CURED.**

Wear protective gloves, eye and face protection. Wash thoroughly after handling. People sensitive to odours and or chemicals should avoid the work area. During the installation process, adequate ventilation of the work area should be maintained. Do not handle until Safety Directions have been read and understood.

## Application

For best results, the area to be levelled should be surveyed, with pins or levelling height markers at approximately 1.5m intervals. Start pouring Gripset C-Level to primed floor surfaces at the rear of the floor, moving the product with a gauge rake, stand up spreader set at the required height adjustment or trowel on a slight incline to obtain the required finish. Maintain a wet on wet pour until the job is complete.

The maximum thickness applied in any application should be limited to 30mm. Consult Gripset technical staff for thicknesses greater than 30mm.

The minimum application of C-Level as a wearing course is 5mm.

In areas subjected to heavy traffic and high point loading, the minimum application of the C-Level is no less than 15mm.

For Timber Flooring installations, the levelling coat of C-level must be no less than 5 mm.

**Cure times:** When applied, will harden after approximately 3-4 hours at 23°C and can be walked on after this time.

C-Level will be ready to receive application of Vinyls, Carpets and Tile floor coverings fixed with adhesives after 18 hours at 23°C (in this application C-Level can be applied at a minimum thickness of 2mm). Timber Flooring - 24 hours at 23°C (setting time can vary depending on temperature and humidity). Wear surface finishes – Coatings (Epoxy, Acrylic) can be applied 48 hours at 23°C after application Commercial / Industrial applications and areas subjected to heavy traffic, high point loading after 72 hours at 23°C after application. For application on timber and areas required for floor coating (such as epoxy/acrylic or urethane) the C-Level must be applied at a minimum of 5mm.

## Coverage

C-Level will cover approx. 2.4m<sup>2</sup> at 5mm thick.

Note: Coverage will vary based on surface porosity and surface condition, e.g. roughness, evenness etc.

## 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**

- Drying times can be extended when applied in cold ambient temperatures.
- Do not allow to come in contact with water during or after the curing process.
- Do not apply on substrates with rising damp.
- Do not apply over expansion joints as reflective cracking may occur.
- Allow a minimum of 72 hours to cure for internal/external applications subjected to high point loading.
- Areas subjected to heavy vehicle traffic and high point loading require a minimum 15mm C-Level application.
- Not to be used in immersed environments
- Gripset C-Level consists of cement products that contain crystalline silica. Therefore when using this product, precaution must be taken to prevent long term exposure to dust.
- Safety Datasheet (SDS) available.
- For further information about this product, contact Gripset's technical department.

**Clean up**

- With soapy water while in a wet state.
- Once dried product needs to be removed mechanically.

**TECHNICAL DATA**

<b>Appearance</b> Powder	Grey
<b>Form</b>	When mixed – Fluid consistency
<b>Drying</b> Based on normal ambient temperatures of 23°C *Temperature, humidity and porosity will vary dry times	Light foot traffic: 3 hours Tiling/toppings over: 18-72 hours
<b>Open time</b>	30 minutes
<b>Thickness range (single application)</b>	2mm-30mm
<b>Compressive strength N/mm<sup>2</sup></b>	3 days>15 7 days>35 28 days>40
<b>Wet density</b>	=2.00

**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.

**RLA Polymers**

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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.