GRIPSET® C-Level

FAST SET LEVELLER

TDS

TECHNICAL DATA SHEET

Description

GRIPSET C-LEVEL is a rapid drying, fibre reinforced high performance cementitious self-levelling compound suitable for new or existing internal/external concrete substrates and internal timber flooring substrates. Maintaining excellent flow properties, ultra smooth surface finish and high levels of mechanical resistance, C-Level is suitable for commercial areas for the subsequent installation of various floor coverings including the full suite of Gripset waterproofing systems.

Gripset C-Level can be applied from 3mm-30mm in a single application, providing enhanced workability and superior finishes for new and remedial applications.

Features & Benefits

- Time-saving - fast drying and ready for direct use
- Requires no additives or admixtures
- Suitable over timber substrates
- Can be used in conjunction with underfloor heating systems
- Can be applied in thicknesses of 3mm to 30mm
- Superior compressive strength over 40 MPa
- Good wear and load resistance
- Suitable for domestic, commercial and industrial applications
- Compatible with a range of floor finishes

Uses

- As a surface leveller under vinyl, timber flooring, carpet, linoleum, and tile floor finishes
- As a wear surface finish for commercial applications under suitable coatings
- As a surface leveller in areas subject to heavy traffic and high point loadings
- In areas subject to wheelchair traffic
- In areas where underfloor heating systems are to be used
- As a leveller over timber substrates

Substrates

- Concrete
- Timber flooring

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

Surface Preparation

Concrete subfloors

- Subfloors must be dry, sound, clean and prepared as per requirements outlined in the relevant Floorcoverings Australian Standard
- 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 or adhesives, moss, algae, sharp protruding objects and general surface contaminants that may compromise the adhesion of the overlaid system
- Structurally unsound layers and surface contaminants to be mechanically removed by grinding, abrasive blasting or equivalent methods
- Substrates with high residual moisture or subject to active moisture or rising damp must be treated with GRIPSET E60

Surface Preparation continued

Timber subfloors

- Timber flooring must be solid, sound, clean, installed and prepared as per manufacturers recommendations and requirements outlined in the relevant Floorcoverings Australian Standard
- All loose boards must be re-nailed or repaired before levelling
- All surfaces are to be smooth, dry, and free from loose material, dirt, dust, oil, grease, wax residues, protective coatings, sealers, existing coatings and general surface contaminants that may compromise the adhesion of the overlaid system
- All surface contaminants must be removed by mechanical means and substrate vacuumed before applying 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

C-Level must be applied over a primed surface.

GRIPSET GP PRIMER – For application over general porous surfaces. Apply by brush or medium nap roller at a minimum coverage of 1litre/8-10m²

GRIPSET OP PRIMER – For application over non porous, smooth and dense surfaces. Apply by brush or medium nap roller at a minimum coverage of 1 litre per 12m²

GRIPSET E60 PRIMER – For application over concrete and mineral surfaces with high residual moisture or subject to rising damp.
Apply 2 x coats at a coverage rate of 1litre/3m² per coat.
The second coat of Gripset E60 must be sand seeded while still in its wet state to promote adhesion of Gripset C- Level
Allow Primer to dry for a minimum of 24 hours before applying C-Level.

Note: Refer to individual primer data sheets for specific application details

Mixing

- C-Level requires 3.8-4.0 litres of clean water per 20kg bag
- Product is best mixed using an electric mixing drill with a high shear stirrer or a spiral mixing paddle
- Add pre-measured water to a clean mixing bucket
- Gradually add C-Level into the water whilst continuously mixing
- When the entire contents of the bag have been added to the water, mix for a further 3-4 minutes to produce a smooth homogenous consistency

Important:
DO NOT MIX BY HAND
DO NOT ADD EXCESS WATER: ADDITION OF WATER GREATER THAN THE RECOMMENDED 4.0 LITRES PER BAG WILL RESULT IN SEGREGATION AND BLEED AND A POWDERY SOFT SURFACE

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Application

- For best results, the area to be levelled should be surveyed, with pins or levelling height markers at approximately 1.5m intervals.
- Commence 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.
- C-Level may be applied using a continuous automatic pump such as a Putznecht or Putzmeister. (Consult RLA for additional information)

Note:

- 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.

Important:

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

Recommended application thickness

- 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 over concrete, the levelling coat of C-level must be no less than 5 mm
- 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

A 20kg bag of C-Level will cover approximately 2.4m² at 5mm thickness.

Thickness	Coverage per 20kg Bag
5mm	2.4m²
10mm	1.2m²
20mm	0.6m²
30mm	0.3m²

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

Drying & Curing

Open time	30minutes
Vinyl, Carpet and Ceramic Tile finishes	18 hours
Timber Flooring*	24 hours
Wear Surface coatings & finishes (Epoxy, Acrylic etc)	48 hours
Commercial / Industrial applications (Heavy traffic/high point loading)	72 hours

*Residual moisture levels to be tested as per relevant installation standards and flooring manufacturers recommendations

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

Clean up

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

Shelf life & Storage

- Shelf life: 12 months if kept in a dry environment
- Best stored at room temperature.
- Avoid cold freezing conditions and off concrete floors.
- Do not store in direct sunlight.

Packaging

- 20kg bags

Precautions

- Do not allow to come in contact with water during or after the curing process
- Do not apply when surface or ambient temperatures are below 5°C or above 30°C
- 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.
- For further information about this product, contact Gripset's 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

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Technical Data	
Appearance	Grey Powder
Form (mixed)	Fluid consistency
Wet Density	2.16
Application Temperature	5°C to 35°C

Performance	
Age	**Compressive Strength (MPa)**
3 Days	≥15
7 Days	≥35
28 Dyas	≥40

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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Issue Date: 01/10/2024

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