GRIPSET® C-BED

PREMIUM GRADE SCREED

TDS

TECHNICAL DATA SHEET

Description

GRIPSET C-BED is a ready-to-use, slump- free and shrinkage controlled engineered screed suitable for internal and external applications. Respirable Silica Compliant, C-Bed combines select aggregates to maintain high strength at low builds whilst displaying excellent water resistance, enhanced workability and a superior finish.

Fast drying, C-Bed accepts light foot traffic after 8 hours and can be tiled over in 24 hours making it ideal for new and remedial applications.

Features & Benefits

- Easy, fast application
- Fast drying and rapid hardening -reducing down time for the overlay of coatings and finishes
- Excellent water resistance - reduces risk of efflorescence associated with sand/cement blends
- Can be applied directly onto prepared concrete surfaces
- Excellent adhesion to prepared substrates
- Dimensionally stable- will not crack
- Suitable for screed applications from 5mm up to 100mm in thickness
- Pre-blended. One pack product eliminating on-site batching and ensures consistency of mixed product
- RCS Compliant* (Respirable Crystalline Silica)

**Silica (Respirable Crystaline Fraction) levels are below the concentration limit for carcinogens (0.1%) as per schedule 6 of the Model Work Health Safety Regulations 2023.*

Uses

- Residential and commercial applications where engineered floor screed is required for internal or external areas
- Underlayment for floor coverings such as carpet, ceramic tiles, vinyl, parquetry etc.
- Repairs of uneven concrete floors
- New construction, refurbishment and remedial projects.
- Building up ramp areas prior to application of floor coverings
- As an insitu shower base with required falls to drains
- Building ramps or falls to floors

Substrates

- Concrete
- Masonry
- Concrete Blocks
- Gripset wet area membranes

Surface Preparation

- All surfaces are to be clean, sound, smooth, dry, and free from loose material, dirt, dust, oil, grease, wax residues, curing compounds, release agents, existing coatings, moss, algae, sharp protruding objects and general surface contaminants that may compromise the adhesion of the overlaid screed system
- Structurally unsound layers and surface contaminants to be mechanically removed by grinding, abrasive blasting or equivalent methods
- Building surfaces must be fit for purpose and constructed to manufacturer's recommendations and relevant building standards in force at time of application
- Concrete substrates must be at least 14 days old
- Substrates subject to active moisture or rising damp must be treated with GRIPSET E60

Unbonded Screeds

Minimum 40mm thickness

- C-Bed is to be laid over two layers of polyethylene plastic sheet as a slip sheet / isolating layer between the substrate and screed
- Galvanized metal reinforcement to be incorporated in accordance with AS 3958

Bonded Screeds

Minimum 5mm thickness

C-BED is to be bonded to surfaces using one of the following options:

OPTION A: SLURRY PRIMER
1 part GRIPSET 11Y
2 Parts GRIPSET C-BED

Note: Parts measured by volume

Mix Ratio	**6litres of 11Y per 20kg bag of C-Bed**
Coverage	**Approximately 7.5m² per bag**

Slurry Primer Application

- Combine components in a clean mixing pail and mix using an electric stirrer with paddle attachment at slow/medium speed until a fluid slurry consistency is formed and all components are suspended in the mix
- Apply slurry primer to surface by medium nap roller or soft bristle broom at a 2mm wet film thickness
- C-Bed to be laid over a damp coat of slurry primer as a "wet on wet" application for optimum adhesion

Note: Periodically re-stir slurry mixture as necessary to prevent dry components settling

OPTION B: GRIPSET C-MASTIC TILE ADHESIVE

- Mix Gripset C-Mastic Adhesive with water as per instructions and apply to surfaces using an 8mm square notched trowel to where C-Bed is to be laid
- C-Bed is to be laid over a wet bed of adhesive as a "wet on wet" application

Important: Do not let the adhesive skin before applying C-Bed. Once the adhesive skins, remove and re-apply fresh adhesive.

Mixing

- C-Bed requires 1.5 – 1.7 litres of clean water per 20kg bag
- Product is best mixed with a forced action, high shear stirrer, powered by a heavy duty electric mixing drill at approx. 600 rpm
- Add pre-measured water to a clean mixing bucket
- Gradually add C-Bed into the water whilst continuously mixing the contents of the bucket
- When the entire contents of the bag have been added to the water, mix for a further two (2) minutes to produce a smooth homogenous consistency
- Discard any C-Bed that has hardened or stiffened in the mixing

DO NOT MIX BY HAND AND DO NOT ADD EXCESS WATER

Placement

- Install C-Bed onto a wet/damp coat of the Plastinex slurry primer / wet bed of Mastic tile adhesive as a wet on wet application
- While the mortar is fresh, level the screed to desired height or falls and finish with a wood float.

Application Recommendations

- Only mix up quantities for areas that will be used within the working time
- Tamping and packing the screed mortar increases the performance and reduces the porosity of the screed
  Note: Increased screed thicknesses require greater attention to compaction to ensure consistent density and mechanical performance
- The addition of water to C-Bed after it has started to stiffen is not recommended
- Any C-Bed that has not been placed whilst still pliable should be discarded
- Installed areas to be protected from direct sunlight or drying winds during cure to prevent rapid drying
- Isolating materials such as polystyrene foam are recommended for placement to areas where the screed will abut perimeter walls, around columns and protrusions before laying

Filling & Repairs

- When filling holes and voids, apply C-Bed into the hole and compact well by applying firm pressure to the trowel ensuring C-Bed comes into total contact with the substrate.
- Leave the repair proud of the hole or for approximately 10 minutes, before trimming off the excess and finishing off with a damp steel trowel.
- Once the C-Bed has hardened, the area can be levelled over with GRIPSET C-LEVEL if required

Coverage

Thickness	Coverage per 20kg Bag
5mm	2m²
10mm	1m²
20mm	0.5m²
30mm	0.3m²
40mm	0.25m²
50mm	0.2m²
80mm	0.12m²
100mm	0.1m²

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

Drying & Curing

Working time	≥3 hours
Setting Time	4 hours
Light foot traffic	8 hours
Waterproof membrane application	24 hours
Ceramic tile finishes	24 hours
Resilient flooring	4 days
Timber floors	5 days
Residual Moisture %	
1 day	4.6%
3 days	3.2%

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

NOTE: Drying times are based on screed beds up to 5cm thick at ambient temperatures of 23°C and 50% RH. These times may vary subject to ambient/surface temperatures, humidity and screed thickness. Drying/curing times will be extended in cooler conditions and periods of high relative humidity

Drying times may extend up to 7 to 10 days for each additional cm of screed thickness.

Clean up

- C-Bed should be removed from tools and equipment with clean water immediately after use

Shelf life & Storage

- 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

- Not recommended for use over timber or metal substrates
- Not to be used in immersed environments
- Do not apply when surface or ambient temperatures are below 5°C or above 30°C
- Do not over water
- Do not hand mix
- Always check moisture content in large/ thick applications prior to laying floorcoverings as per flooring manufacturers recommendations and relevant installation standards
- Do not use in areas subject to hydrostatic head of pressure without use of Gripset E60 moisture barrier
- 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

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TECHNICAL DATA SHEET

Technical Data	
Appearance	Grey Powder
Bulk Density	1.6
Wet Density	1.9
Application Temperature	5°C to 35°C

Performance		
Age	**Flexural Strength (MPa)**	**Compressive Strength (MPa)**
1 Day	2.5	10.5
3 Days	3	17
7 Days	3.8	20
28 Days	4.9	26.5

RLA POLYMERS

GRIPSET SEALED FOR GOOD

Address : 215 Colchester Road Kilsyth Victoria 3137
Phone: +61 (8) 8124-7300 or 1800 650 435
Email: technicalsupport@rlapolymers.com.au
Website: www.gripset.com

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: 31/08/2026

Author: AR

NANPAO