

## RLA FLEXI LEVELLER

Flexible, rapid drying self-levelling compound



### **PRODUCT DESCRIPTION:**

RLA FLEXI is rapid drying self-levelling compound with excellent flow properties formulated for levelling differences from 1 to 20 mm in thickness on new or existing internal Concrete and Timber substrates. It develops a smooth and even surface with high levels of mechanical resistance, ensuring the subsequent installation of floor coverings.

### **FEATURES AND BENEFITS:**

- 1mm to 20mm.
- Enhanced Flexibility
- Fibre Reinforced
- Ideal for Installing Timber Flooring.
- Ideal for use over Timber Substrates.
- Simply Mix with Water

### **Classification According To EN 13813:**

The material properties of RLA FLEXI are classified as CT-C20-F7 according to EN 13813.

### **Recommended Use:**

It is ready to accept most floor coverings after approximately 12 hours and allows for quick and reliable installation. Installations of Timber floorcoverings can take place 24 hours after application. Once dry it is suitable for the application of vinyls, timber flooring, carpets, linoleum, and tile floor finishes. Roberts Flexi 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 Roberts Flexi must be no less than 3 mm.

### **SURFACE PREPARATION:**

Subfloors must be dry, sound, clean and in accordance with the relevant Floorcoverings Australian Standards. Subfloors must also be free of wax, grease, oil, polishes, old adhesive, curing compounds, high levels of moisture 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 10oC

Do not use solvents, or acid etching to clean the subfloor.

Concrete floors must be dry sound, smooth and clean, in accordance with relevant Floorcoverings Australian Standards. For subfloors that display high moisture levels it is recommended an RLA Moisture Barrier be applied.

Please contact RLA Technical Department for further details.

Where temperatures are less than 5oC or greater than 35oC are encountered, please contact RLA Technical department for further details.

### **Timber Floors**

Timber flooring must be solid, sound, clean, free from wax, oil, free from gaps and securely fixed and in accordance with the Timber Flooring Manufactures Instructions and relevant Australian Standards.

Prior to levelling Timber Flooring, please ensure the flooring is solid, firmly fix any loose boards will need to be re-nailed or repaired prior to levelling.

Please note: Timber flooring may be coated with a resin or waterproof protective layer.

Particle board flooring contains wax coatings or sealers and can affect adhesion to applied finishes. These resins, sealers, wax coatings must be removed by mechanical means prior to applying a primer. Please ensure substrate is vacuumed prior to 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 in accordance with the relevant Australian Standards to prevent the build-up of dampness.

**PRIMING:**

Prime concrete and timber floors with RLA Universal Primer

**Porous Substrates:**

Absorbent concrete surfaces, Mix 1 Part RLA Universal Primer with 2 Parts clean water.

Apply an even film using a roller or brush ensuring the entire area is primed and allow to cure.

Highly absorbent or porous surfaces may require a second coat of Universal Primer to avoid pinholes.

For the preparation of Timber Floors and Particle Board Flooring apply RLA Universal Primer in NEAT format.

**Non- Porous Substrates:**

Ensure substrates such as ceramic tiles have no coatings or sealing compounds residing on the surface before the application of primer.

Coatings, Curing and Sealing compounds on concrete substrates must be mechanically removed.

Apply an even layer of RLA Universal Primer neat (undiluted to non porous substrates).

Allow primer to dry (approx. 2 hours @ 23°C).

Once Primer is a tack free clear film, Product can be applied over the primer.

Examples of Non-Porous Substrates: Burnished Concrete, Ceramic Tiles, Liquid Waterproofing membranes.

For extremely non-porous substrates, it is recommended that a light grind or sand be conducted to enhance adhesion.

Determining whether a substrate is POROUS or NON-POROUS, pour water from a bottle or a dropper forming a puddle onto the substrate surface, the size of a 10-cent coin. If the water absorbs into the substrate in less than ONE (1) minute, the substrate is POROUS. If the puddle remains, the substrate is NONPOROUS. ATSM F3191-16 Standard Practice for Field Determination of Substrate Water Absorption (Porosity) for Substrates.

**MIXING RATIO:**

RLA FLEXI Levelling compound should be mixed using a drill and suitable mixing paddle.

Mix one 20kg bag with 4.6 -4.8 litres of clean water.

Slowly add ½ the bag of powder to the water while mixing thoroughly, then add remainder of bag to mix. It is essential to ensure the powder and water are evenly mixed for approximately 3 minutes and the water is dispersed to obtain a lump free mix. Do not over water as this will promote bleed and separation with a reduction in bond and tensile strength.

**APPLICATION:**

Apply in one coat from 1mm to 20mm.

Apply the mixed compound to the primed substrate using a gauge rake, stand up spreader at the required height adjustment or trowel on a slight incline to obtain the required thickness.

Larger installations can also be pumped using an appropriate mixing pump.

The mixed quantity must be used within 15 minutes at a temperature of 23°C

Due to its self-levelling properties will quickly develop a smooth finish and even surface.

**SETTING TIMES:**

When applied will harden after approximately 3 hours at 23°C and can be walked on after this time.

The levelling coat of RLA FLEXI will be ready to receive application of Vinyls, Carpets and Tile floor coverings fixed with adhesives after 12 hours at 23°C and Timber Flooring after 24 hours at 23°C (time can vary depending on temperature and humidity).

**CLEAN UP:**

Clean tools immediately after use with water

**SHELF LIFE / STORAGE:**

12 months when stored in original unopened packaging  
To be stored in a dry area off the ground.

**NOTES & 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.
- Internal use only.
- Do not apply over expansion joints as reflective cracking may occur.

**SAFETY & HANDLING**

Do not breathe dust. Wear suitable respiratory protection.

Use in well ventilated areas. Avoid contact with skin and eyes.

Wear eye protection and suitable gloves and clothing.

Do not eat, drink or smoke while using this product.

Take off contaminated clothing and wash before reuse.

If on skin wash with plenty of soap and water. If in eyes: rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do.

Continue rinsing.

If Inhaled remove victim to fresh air and keep at rest in a position comfortable for breathing.

If any skin or eye irritation persists or you feel unwell get medical attention.

Safety Data Sheet is available upon request.

TECHNICAL DATA:

Product Information	
Colour	Grey
Bulk Density (kg/dm <sup>3</sup> )	1.00
Wet Density (kg/dm <sup>3</sup> )	1.94
Shelf Life	12 Months
Packaging	20kg
VOC – GEV Ecode	EC1 Plus
Coverage – 20kg Bag	Will cover approximately 4m <sup>2</sup> at 3mm
<b>Application Data 23°C at 50% RH</b>	
Mixing Ratio	4.6-4.8 Litres of Water
Open Time	30 Minutes
Setting Time	3 Hours
Temperature Range	From +5°C to +35°C
Maximum Thickness	15mm
Foot Traffic	3 Hour
Waiting Time Before Subsequent Bonding	12 Hours Vinyl, Carpet – 24 Hours Timber Flooring
pH of Mix	Approximately pH 12
<b>Performance Data</b>	
Flexural Strength N/mm <sup>2</sup> – EN 13892-2	
1 Day	>2
3 Days	>3
7 Days	>5
28 Days	>7
Compressive Strength N/mm <sup>2</sup> – EN 13892-2	
1 Day	>8
3 Days	>11
7 Days	>15
28 Days	>20
Abrasion Resistance g-EN12808-2	
28 Days	≤ 80
Surface Hardness N/mm <sup>2</sup> – EN13892-6	
28 Days	>45

**Warranty Statement:**

RLA Polymers guarantees this product against manufacturing defects and guarantees it to be manufactured to our published specification.

We certify that when fully cured this product is suitable for use and will perform as described in our technical data sheet or other published materials.

RLA Polymers will replace product free of charge when purchased from any legally verifiable source, and where 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 the relevant Australian Standard and the Floorcovering Manufacturers instructions and the floorcoverings must have been subject to normal traffic conditions.

Warranty doesn't not 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.

A claim form can be requested by:

Phone: 1800 242 931

Email: [info@rlapolymers.com.au](mailto:info@rlapolymers.com.au)

Mail: 215 Colchester Road Kilsyth Victoria 3137 (attention Customer Service)

**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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