ROBERTS European Technology, Locally Made.

TDS Technical Data Sheet

FLEXI

Flexible Levelling Compound

DESCRIPTION:

ROBERTS 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 smooth and even surfaces with high levels of mechanical resistance, ensuring the subsequent installation of floor coverings.

FEATURES AND BENEFITS:

- Enhanced Flexibility
- Thickness 1mm to 20mm
- Fibre Reinforced
- Ideal for Installing Timber Flooring
- Pump application
- Ideal for use over Timber Substrates
- Simple mix with water.

SUBSTRATES:

Substrates suitable for application of ROBERTS FLEXI Include:

- Concrete
- Timber
- Particle Board

When installing Timber Flooring over a concrete substrate, the levelling coat of Roberts Flexi must be no less than 3mm.

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 vinyl, 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.

INTERNAL USE ONLY

SURFACE PREPARATION:

The minimum subfloor temperature before commencing installation should be 10°C.

Concrete substrates must be at least 14 days old.

Surfaces must be prepared thoroughly before commencing application. All substrates must be structurally sound, smooth, stable, dry, and clean. Rough surfaces and voids should be evened or filled first, and all brick/block surfaces should be pointed flush. All general surface defects are to be repaired. Building surfaces must be constructed to the manufacturer's recommendations and relevant building standards in force at the time of membrane application.

All surfaces must be free of sharp protruding objects, loose material, de-bonded coatings, curing membranes/agents, release agents, wax residues, foreign particles, laitance, algae and moss grime, oils, animal fats, or grease remains. Structurally unsound layers and surface contaminants must be mechanically removed by abrasive blasting, blast tracking, grinding or equivalent methods.

For resilient installations, relative humidity and pH readings must be carried out on the concrete substrate by Australian Standard 1884-2021. If required, use-

RLA MOISTURE SEAL.

If temperatures are less than 5°C or higher than 35°C, please contact the RLA Technical department for further details.

MIXING RATIO:

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

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 Roberts FLEXI into the water while mixing the bucket's contents.

When the entire contents of the bag have been added to the water, mix for a further three (3) minutes to produce a smooth homogenous consistency.

DO NOT MIX BY HAND & DO NOT ADD EXCESS WATER.

COVERAGE:

20 kg Bag of ROBERTS FLEXI mixed with 4.6-4.8 litres of water will cover approximately 4m² @ 3mm thickness

RLA Polymers Pty Ltd ACN 004 709 915
215 Colchester Road, Kilsyth, Victoria, 3137 info@rlapolymers.com.au T. 1800 242 931
rlapolymers.com.au

PRIMING:

Prime substrates with *ROBERTS R48 UNIVERSAL PRIMER*

POROUS SUBSTRATES:

Mix one (1) part ROBERTS R48 UNIVERSAL PRIMER with two (2) parts of clean water.
Apply an even film using a roller or brush, ensuring the entire area is covered and allowed to cure.
Highly absorbent or porous surfaces may require a second coat of ROBERTS R48 UNIVERSAL PRIMER to avoid pinholes.

NON-POROUS SUBSTRATES:

Substrates such as ceramic tiles have no coatings or sealing compounds on the surface before applying primer. Coatings, curing, and sealing compounds must be mechanically removed from concrete substrates.
Apply an even layer of ROBERTS R48 UNIVERSAL PRIMER neat (undiluted to non-porous substrates).
Allow the primer to dry (approx. 2 hours @ 23°C).
Once Primer is a tack-free transparent film, products 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 ***NON-POROUS***.

ATSM F3191-16 Standard Practice for Field Determination of Substrate Water Absorption (Porosity) for Substrates

TIMBER FLOORS:

Timber Floors Timber flooring must be solid, sound, clean, free from wax and oil, free from gaps and securely fixed by the Timber Flooring Manufactures Instructions and relevant Australian Standards. Before levelling Timber Flooring, please ensure the flooring is solid and 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. Particle board flooring contains wax coatings or sealers and can affect adhesion to applied finishes.

TIMBER FLOORS:

Continued:

These resins, sealers, and wax coatings must be removed by mechanical means before applying a primer. Please ensure the 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 crossflow ventilation must be adequate and by the relevant Australian Standards to prevent the build-up of dampness.

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 ROBERTS FLEXI will be ready to receive an application of Vinyl, 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 shall 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 it to come in contact with water during or after the curing process.
- Do not apply on substrates with rising dampness.
- Internal use only.
- Do not apply over expansion joints, as reflective cracking may occur.

TECHNICAL DATA:

PRODUCT INFORMATION:	
Colour	Grey
Bulk Density (kg/dm$^{3)}$	1.1
Wet Density (kg/dm$^{3)}$	2.0
Shelf life	12 months
Packaging	20kg
VOC – GEV Emicode	EC1 Plus
Coverage – 20kg Bag	It will cover approximately 4m^2 at 3mm.
APPLICATION DATA 23°C AT 50% RH:	
Mixing Ratio	4.6-4.8litres of water
Open Time	30-40 minutes
Setting Time	3 hours
Temperature Range	+5°C to +35°C
Maximum Thickness	20mm
Foot traffic	3 hours
pH of Mix	Approximately pH 12
PERFORMANCE DATA:	
FLEXURAL STRENGTH N/mm2 EN 13892-2	
1 day	> 2
3 days	> 3
7 days	> 5
28 days	> 7
COMPRESSIVE STRENGTH N/MM2 EN 13892-2	
1 day	> 8
3 days	> 11
7 days	> 15
28 days	> 20
ABRASION RESISTANCE g-EN 12808-2	
28 days	≤ 80
SURFACE HARDNESS N/mm2 EN 13892-6	
28 days	> 45

COMPATIBILITY:

ROBERTS FLEXI is compatible with the ROBERTS range of moisture seals and primers.
ROBERTS range of carpets, resilient, timber adhesives.

CLASSIFICATION ACCORDING TO EN 13813:

The material properties of ROBERTS FLEXI are classified as *CT-C20-F7*

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 it before reuse.
- If on the skin, wash with plenty of soap and water.
- If in the eyes: rinse cautiously with water for several minutes.
- Remove contact lenses; if present, continue rinsing.
- If inhaled, remove them to fresh air and keep them at rest in a position comfortable for breathing.
- If any skin or eye irritation persists or you feel unwell, get medical attention.

The Safety Data Sheet is available upon request.

FIRST AID:

If poisoning occurs, contact a doctor or Poisons Information Centre.
Skin: Wash off with warm water and soap.
If swallowed, DO NOT induce vomiting. Give a glass of water.
For advice or if you feel unwell, contact a Poisons Information Centre: Australia ph. 131126,
New Zealand ph. 0800 764 766 or a doctor at once.
If swallowed, do NOT induce vomiting.
IF SWALLOWED, immediately call the Poisons Information Centre or a doctor.
IF ON SKIN Remove immediately all contaminated clothing and wash skin with soap and water.
If skin irritation occurs, get medical advice/attention.
IF IN EYES Rinse carefully with water for several minutes.
If eye irritation persists, get medical advice/attention.

WARRANTY STATEMENT:

RLA Polymers guarantees this product against manufacturing defects and guarantees it to be manufactured to our published specifications.
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 a 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 per the relevant Australian Standard, and the Floorcovering Manufacturer's instructions, and the floorcoverings must be subject to normal traffic conditions.
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.
A claim form can be requested by:

PHONE: 1800 242 931
EMAIL: info@rlapolymers.com.au
MAIL: 215 Colchester Road Kilsyth Victoria 3137 (Attention Customer Service)
WEBSITE: www.rlapolymers.com.au

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.