ROBERTS®

ECOFLO

Levelling Compound

DESCRIPTION:

ROBERTS ECOFLO is an economical, rapid-drying Respirable Silica Compliant self-levelling compound with excellent flow characteristics. Forming a smooth, durable surface with high levels of mechanical resistance, it provides a suitable surface for subsequent installation of a wide range of floor coverings including carpets, resilient coverings, linoleum, timber flooring, and tiled floor finishes.

ROBERTS ECOFLO is suitable levelling differences from 1 to 30 mm in thickness on new or existing internal concrete substrates.

FEATURES & BENEFITS:

- Economical
- Excellent flow properties
- Rapid drying
- Can be applied in thicknesses from 1 to 30mm
- Pumpable
- 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.*

RECOMMENDED USE:

- Levelling new and existing concrete substrates
- Levelling and preparation of surfaces for the installation of carpet, carpet tiles, vinyl and resilient coverings, ceramic tiles, timber flooring and floating floor finishes
- Levelling over underfloor heating systems (Always check with underfloor heating manufactures recommendations before proceeding)
- **INTERNAL USE ONLY**

CLASSIFICATION ACCORDING TO EN 13813:

The material properties of Roberts Ecoflo are classified as **CT-C30-F6**

SURFACE PREPARATION:

- Substrates must be dry, sound, clean, and compliant to relevant National, State, and Local Building codes and applicable Australian Standards
- Substrates must be free from loose material, dirt, dust, wax, grease, oil, polishes, old adhesive, curing compounds, existing coatings, high levels of moisture, and any other contaminating materials that may affect adhesion of the overlaid levelling system
- Structurally unsound layers and surface contaminants must be mechanically removed using recommended methods including shot blasting and diamond grinding to provide a roughened, clean, sound, and open porous surface
- Thoroughly vacuum any loose material and dust
- Do not use solvents or acid etching to clean subfloors
- For resilient installations, relative humidity and pH readings must be carried out on the concrete substrate as per Australian Standard 1884-2021
- For substrates that display high moisture levels, RLA recommends that **RLA MOISTURE SEAL** is applied before the installation Roberts Ecoflo
- The minimum subfloor temperature before commencing installation should be 10°C
- For temperatures less than 5°C or higher than 35°C, contact the RLA Technical department

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 (1:2 ratio on volume)
- Apply an even coat 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:

- Includes burnished concrete, ceramic tiles and liquid waterproofing membranes
- All coatings and sealing compounds to ceramic tiles and concrete substrates must be mechanically removed before applying primer
- For extremely non-porous substrates, it is recommended that a light grind or sand be conducted prior to enhance adhesion
- Apply a neat (undiluted) coat of Roberts R48 Universal Primer using a roller or brush, ensuring the entire area is covered and allowed to cure

To determine 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**.

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

MIXING RATIO:

Mix one 20kg bag of Roberts Ecoflo with 4.2-4.4 litres of clean water.

- Mix Roberts Ecoflo levelling compound with a drill and suitable mixing paddle
- Pour 4.2-4.4litres of clean water into a clean mixing pail
- Slowly add the powder to the water while mixing at a low speed
- It is essential to ensure the powder and water are mixed evenly for approximately three (3) minutes and that the water has dispersed to obtain a lump-free mix
- Do not overwater, as this will promote bleeding and separation with a reduction in bond and tensile strength

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

APPLICATION:

- **Apply in one coat from 1mm to 30mm**
- 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 necessary thickness
- 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, Roberts Ecoflo will quickly develop a smooth finish and even surface

Note:

- When installing hardwood timber flooring onto a concrete substrate, the levelling must be no less than 3mm
- If applying over ceramic tiles and other non-absorbent substrates, it is recommended to apply a minimum of 3-4mm coating to ensure a water based adhesive can wet out correctly

SETTING TIMES:

- Leveller will harden after 3–4 hours and can be walked on after this time.
- The levelling coat will be ready to receive floor coverings fixed with adhesives after 24 hours
- Installations of Timber Floor coverings can take place 48 hours after application.

Note: Setting times based on normal ambient temperatures of 23°C and 50% RH. Setting times may vary depending on temperature and humidity

COVERAGE:

- 4m² per 20kg bag @ 3mm thick

CLEAN UP:

Clean tools immediately after use with water.
Do not pour mixed Roberts Ecoflo down drains, which will cause blockages.
Pour any leftover mix into an empty bag of Roberts Ecoflo and discard once the product has set hard

SHELF LIFE / STORAGE:

- 12 months stored in original unopened packaging
- Best stored in a dry area at room temperature
- Keep off cold floors and out of direct sunlight

PACKAGING:
20kg bags

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.

NOTES & PRECAUTIONS:
- Do not allow Roberts Ecoflo to come into contact with water during or after the curing process
- Do not apply to substrates subject to rising dampness
- Drying times are extended when applied in cold ambient temperatures
- Not suitable for particleboard flooring
- Do not apply over expansion joints as reflective cracking may occur
- **INTERNAL USE ONLY**

COMPATIBILITY:
Roberts Ecoflo is compatible with the Roberts range of primers, carpet, resilient, and timber adhesives.

PRODUCT INFORMATION:	
Colour	Grey
Bulk Density (kg/dm$^{3)}$	1.46
Wet Density (kg/dm$^{3)}$	2.0
Shelf life	12 months
Packaging	20kg
VOC – GEV Emicode	EC1 Plus
Coverage – 20kg Bag	Approximately 4m^2 at 3mm
APPLICATION DATA 23°C AT 50% RH:	
Mixing Ratio	4.2-4.4litres of water
Open Time	30-40 minutes
Setting Time	2-3 hours
Temperature Range	From +5°C to +35°C
Maximum Thickness	30mm
Foot traffic	2-3 hours
Waiting time before subsequent bonding	24 hours
pH of Mix	Approximately pH 12
PERFORMANCE DATA:	
FLEXURAL STRENGTH N/mm2 EN 13892-2	
1 day	> 3
3 days	> 4
7 days	> 5
28 days	> 6
COMPRESSIVE STRENGTH N/mm2 EN 13892-2	
1 day	> 10
3 days	>18
7 days	> 25
28 days	> 30
ABRASION RESISTANCE G-EN 12808-2	
28 days	< 150
SURFACE HARDNESS N/mm2 EN 13892-6	
28 days	> 50

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 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 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.
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.

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