TRULEVEL TUFF TOP

High performance self-smoothing overlay

DESCRIPTION:

RLA TRULEVEL TUFFTOP is a rapid-drying self-levelling compound with excellent flow properties formulated for levelling differences from 3 to 30 mm in thickness on new or existing internal/external concrete substrates.
It develops smooth and even surfaces with high levels of mechanical resistance suitable for commercial areas and the subsequent installation of floor coverings.

FEATURES & BENEFITS:

- Excellent flow properties
- Internal and external use
- Can be applied in thickness from 3mm – 30mm
- Rapid drying
- High compressive and flexural strength
- Excellent resistance to indentation and abrasion
- Suitable for use as a wear surface in conjunction with RLA Epoxy coating systems
- Suitable for pump application

RECOMMENDED USE:

- Levelling new and existing concrete substrates for domestic, commercial and industrial applications
- Internal and external levelling applications
- Preparation of surfaces for subsequent floor finishes including vinyl, timber flooring, carpets, linoleum, and ceramic tiles
- Applications subject to heavy traffic and high point loading as well as for wheelchair traffic
- Levelling over underfloor heating systems
- As a wear surface when used in in conjunction with RLA Epoxy coating systems. Refer **RLA EPILOX** and **FLOORTHANE** systems for options
- Ready to receive most floor coverings after approximately 18-24 hours, with areas subjected to heavy traffic and high point loading after 48 hours
- Installations of Timber floor coverings can take place 24 hours after application.

CLASSIFICATION ACCORDING TO EN 13813:

The material properties of RLA TRULEVEL TUFFTOP are classified as *CT-C40-F8*

SURFACE PREPARATION:

- Substrates must be dry, sound, clean, and per the relevant National, State, and Local Building codes, including applicable Australian Standards.
- Substrates must 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 methods such as shot blasting and 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 10°C
- Do not use solvents or acid etching to clean the subfloor.
- Relative humidity and pH readings must be carried out on the concrete substrate in accordance with the Relevant Floorcovering Australian Standards.
- For substrates that display high moisture levels, RLA recommends that ***RLA MOISTURE SEAL*** be applied before TruLevel EconoPro Plus installation.
- Where temperatures are less than 5°C or higher than 35°C, please contact the RLA Technical department for further details.

APPLICATION:

Apply in one coat from 3mm to 30mm.
Consult RLA technical staff for thicknesses greater than 30mm.
Apply the mixed compound to the primed substrate using a gauge rake, stand-up spreader, squeegee, or screed bar 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 5 minutes at a temperature of 23°C
Due to its self-levelling properties, RLA TRULEVEL TUFFTOP will quickly develop a smooth finish and even surface.

FLOOR FINISHES:

- When installing in areas as a wear surface, the minimum application of TuffTop is 5mm
- As a wear surface, a suitable coating system (E.g. epoxy) is to be applied over. Refer **RLA EPILOX** and **FLOORTHANE** systems for options
- In areas subjected to heavy traffic and high-point loading, the application of TuffTop is a minimum 15mm in thickness
- When installing Timber Flooring over a concrete substrate, the levelling coat of TuffTop must be no less than 5 mm

PRIMING:

Prime substrates with ***RLA UNIVERSAL PRIMER***

POROUS SUBSTRATES:

Mix one (1) part 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 Universal Primer to avoid pinholes.

NON-POROUS SUBSTRATES:

Substrates such as ceramic tiles to 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 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 Water Proofing membranes.

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

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

MIXING RATIO:

Mix one 20kg bag with 3.8-4.0 litres of clean water.

Mix RLA TRULEVEL TUFFTOP levelling compound with a drill and suitable mixing paddle.
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 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.
Only mix the quantity of material used within the working time.
Apply the RLA TRULEVEL TUFFTOP immediately after the completion of mixing.
Ensure subsequent mixers are ready to allow continuous uninterrupted pouring onto the entire surface.

DFO NOT MIX BY HAND

DO NOT REWORK OR RETEMPER ANY PARTIALLY SET PRODUCT.

SETTING TIMES:

When applied will harden after approximately 3-4 hours at 23°C and can be walked on after this time.
The levelling coat will be ready to receive an application of Vinyl, Carpets and Tile floor coverings fixed with adhesives after 18 hours at 23°C
(Setting time can vary depending on temperature and humidity).
Wear surface finishes – Coatings (Epoxy, Acrylic) can be applied after 48 hours at 23°C after application.
For Commercial / Industrial applications and areas subjected to heavy traffic and high point loading allow 72 hours at 23°C after application.

CLEAN UP:

Clean tools immediately after use with water.

COVERAGE:

2.4m² per 20 kg bag at 5mm thick

SHELF LIFE / STORAGE:

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

NOTES & PRECAUTIONS:

- Drying times are extended when applied in cold ambient temperatures.
- Do not allow TruLevel TuffTop to come into contact with water during or after the curing process.
- Do not apply to substrates subject to rising dampness.
- Do not apply an overcoat until TruLevel TuffTop is completely dry.
- Do not apply over expansion joints, as reflective cracking may occur.
- Not to be used as an exposed wear surface
- As a wear surface, a suitable coating system (E.g. epoxy) is to be applied over. Refer RLA EPILOX and FLOORTHANE systems for options

HEALTH AND 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.

TECHNICAL DATA:

PRODUCT INFORMATION:	
Colour	Grey
Bulk Density (kg/dm$^{3)}$	1.2
Wet Density (kg/dm$^{3)}$	2.0
Shelf life	12 months
Packaging	20kg
Coverage – 20kg Bag	Approximately 2.4m^2 at 5mm
APPLICATION DATA 23°C AT 50% RH:	
Mixing Ratio	3.8-4.0 litres of water
Open Time	30 minutes
Setting Time	3 hours
Temperature Range	From +5°C to +35°C
Maximum Thickness	30mm
Foot traffic	3-4 hours
Waiting time before subsequent bonding	18-72 hours
pH of Mix	Approximate pH 12

PERFORMANCE DATA	
FLEXURAL STRENGTH N/mm2 EN 13892-2	
1 day	> 3
3 days	> 5
7 days	> 6
28 days	> 8
COMPRESSIVE STRENGTH N/mm2 EN 13892-2	
1 day	> 13
3 days	> 15
7 days	> 35
28 days	> 40
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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