

TruLevel Tuff Top

PRODUCT DESCRIPTION:

Tuff Top is 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 and internal timber flooring substrates. It develops a smooth and even surface with high levels of mechanical resistance suitable for commercial areas and the subsequent installation of floor coverings.

FEATURES & BENEFITS:

- 3mm to 30mm
- Fibre Reinforced Internal and External Concrete Substrates
- Ideal for use over Timber Substrates
- Suitable for commercial and industrial areas

CLASSIFICATION ACCORDING TO EN 13813: The material properties of Tuff Top are classified as CT-C40-F8 according to EN 13813

RECOMMENDED USE:

For use in commercial, domestic and industrial application. Can be applied as wear surface finish for commercial applications provided coating is applied. It is ready to accept most floor coverings after approximately 18- 24 hours and allows for quick and reliable installation and areas subjected to heavy traffic, high point loading after 48 hours. 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. Tuff Top 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 Tuff Top must be no less than 5 mm. When installing in areas as a wear surface it is recommended the minimum application of Tuff Top is no less than 5mm. Areas subjected to heavy traffic and high point loading it is recommended the minimum application of Tuff Top is no less than 15mm.

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 10C 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 5 C or greater than 35 C 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.

MIXING:

TruLevel Tuff Top requires 3.8 – 4.0 litres of water per 20kg bag. Accurately pre-measure the required water and add to the mixing bucket. Slowly add powder to the water whilst continuously mixing. Using an electric mixing drill with a high shear stirrer or a spiral mixing paddle mix the contents for 3-4 minutes ensuring a uniform homogenous consistency is obtained. **DO NOT MIX BY HAND. DO NOT ADD EXCESS WATER: WATER LEVEL OF GREATER THAN 4.0 LITRES PER BAG WILL RESULT IN SEGREGATION AND BLEED AND A POWDERY SOFT SURFACE.** TruLevel Tuff Top may be applied using a continuous automatic pump such as a Putznecht or Putzmeister. (Consult RLA for additional information) Only mix the quantity of material that can be used within the working time of the material. Apply the TruLevel Tuff Top immediately after completion of mixing. Ensure subsequent mixers are ready to allow for continuous uninterrupted pouring onto the entire surface. **DO NOT REWORK OR RETEMPER ANY PARTIALLY SET PRODUCT. DISCARD ANY MATERIAL THAT HAS STIFFENED, HARDENED OR CURED.** Wear protective gloves, eye and face protection. Wash thoroughly after handling. Person who are sensitive to odours and or chemicals should avoid the work area. During the installation process, adequate ventilation of the work area should be maintained. Do not handle until Safety Directions have been read and understood.

APPLICATION:

Apply the mixed Tru Level Tuff Top to the prepared and primed substrate using a trowel, squeegee or screed bar to give the required finished thickness. The maximum thickness applied in any application should be limited to 30mm. Consult RLA technical staff for thicknesses greater than 30mm. The minimum application of TruLevel Tuff Top as a wearing course is 5mm.

PRIMING: Prime concrete 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. For the preparation of areas as a wear surface or subjected to heavy traffic and high point loading preparation of apply 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.

MIXING RATIO:

Tuff Top Levelling compound should be mixed using a drill and suitable mixing paddle.

Mix one 20kg bag with 3.8 - 4.0 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 to 4 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 3mm 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 required thickness. Larger 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 will quickly develop a smooth finish and even surface. For Timber Flooring installations, the levelling coat of Tuff Top must be no less than 5 mm.

Wear surface areas, the minimum application of Tuff Top is no less than 3mm. Areas subjected to heavy traffic and high point loading the minimum application of Tuff Top is no less than 15mm.

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 of Tuff Top will be ready to receive application of Vinyls, Carpets and Tile floor coverings fixed with adhesives after 18 hours at 23°C (in this application the Tuff Top can be applied at a minimum thickness of 3mm). Timber Flooring - 24 hours at 23°C (setting time can vary depending on temperature and humidity). Wear surface finishes – Coatings (Epoxy, Acrylic) can be applied 48 hours at 23°C after application Commercial / Industrial applications and areas subjected to heavy traffic, high point loading after 72 hours at 23°C after application. For application on timber and areas required for floor coating (such as epoxy/acrylic or urethane) the Tuff Top must be applied at a minimum of 5mm.

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.
- Do not apply over expansion joints as reflective cracking may occur.
- Allow a minimum of 72 hours to cure for internal/external applications subjected to high point loading.
- Areas subjected to heavy vehicle traffic and high point loading a minimum application of 15mm Tuff Top is recommended.

Product Information	
Colour	Grey
Bulk Density (kg/dm ³)	1.1
Wet Density (kg/dm ³)	=2.00
Shelf life	12 months
Packaging	20kg
VOC – GEV Eimcode	EC1 Plus
Coverage	Approximately 2.4m at 5mm

Application Data 23°C at 50% RH	
Mixing Ratio	3.8 - 4.0 litres water
Open Time	30 minutes
Setting Time	3 hours
Temperature Range	From +5°C to 35°C
Maximum Thickness	30mm
Foot traffic	3 hours
Time following bonding	18-72 hours
pH of Mix	Approximately pH 12

Performance Data	
Flexural Strength N/mm ²	
EN 13892-2	
3 days	> 5
7 days	> 6
28 days	> 8

Performance Data	
Compressive Strength N/mm ²	
EN 13892-2	
3 days	> 15
7 days	> 35
28 days	> 40

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