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# TUFFLOOR 41 SL EPOXY

**TDS60-1301**

**DESCRIPTION**

A versatile 2K, high solids solventless Epoxy used to create self-levelling or multi-layered floors. TUFFLOOR 41 SL EPOXY provides a highly durable, super smooth or non-skid finish for commercial environments when used with RUFF-IT PLUS.A versatile 2K, high solids solventless Epoxy used to create self-levelling or multi-layered floors. TUFFLOOR 41 SL EPOXY provides a highly durable, super smooth or non-skid finish for commercial environments when used with RUFF-IT PLUS.

**TYPICAL USES**

Floors and walls which require a seamless, non-porous chemically inert and abrasion resistant finish. Such places include foodstuffs sector, clean rooms, abattoirs, milking sheds, dairy factories, automotive, machinery and manufacturing environments, the chemical industry and other medium to heavy industries.

**PERFORMANCE**

Excellent chemical and abrasion resistance. Exhibits excellent mechanical performance properties.
Approved NZS:4586;2004 Appendix A, WET SLIP RESISTANCE: “Y”. RUFF-IT PLUS 5% mixed to 41 SL EPOXY “X”

**LIMITATIONS**

Do not apply on damp substrates without suitable TUFFLOOR primer/sealer. Do not apply to dusty, friable, or unstable substrates.
Check Cotec specification for suitable TUFFLOOR Primer and preparation. UV or chemical exposure may cause colours may fade or change colour; this has no effect on performance.
Protect the product from water for at least 24 hours after application. Vehicle, folk hoists, and other heavy equipment should not be used on the finished surface for 7 days or until the coating has fully cured. If rapid return to service is required refer to Cotec Specification tool- Performance: Industrial Rapid Service Return.

**TECHNICAL DATA**

Resin: 2 Componenet Epoxy
Solvent: Solventless
Colour: Selected RAL and AUS2700
Primer: See over.
Durability: Excellent
Thining and Clean Up: Epotec 107 Thinner
Potlife: 60-70 mins @20°C
Pack Size: 5, 20 Kg
Working Time: 45mins @20°C
Walk on Time: 24 hours (20°C/50% RH)
Cure Hard @20°C: 7 days
Mixing Ratio: 4:1
VOC: 60g/l
Vol Solids: 100 percent
Touch Dry: 5-7 hours @20°C
Recoat Time: 12 Hours @20°C
Max Recoat Time: 72 Hours @20°C
Number of Coats: Varies with specification.
Theoretical Coverage: 6.4 m²/Kg/coat
Wet Film Thickness: 150 microns
Dry Film Thickness: 150 microns
Specific Gravity: 1.3

**AVAILABLE FINISHES @60°C**

| Sheen | Slip Rating | Slip Rating RUFF-IT-PLUS |
|---|---|---|
| Gloss 70% | 25-34 Y | 35-44 X or R10 |

**SPREAD RATE**

Standard Application: 6.4 - m²/Kg/coat
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Medium 0.4mm: 2.5 - m²/Kg/coat
SELF LEVELLING 2mm: 0.5 - m²/Kg/coat
Practical spreading rates will vary depending on such factors as application method, ambient conditions and surface porosity and roughness.

**PRODUCT CODES**

60-7035, 60-2103, 60-1301

**PRIMERS AND UNDERCOATS**

| Substrate | Primer / Undercoat | Technical Data Sheet |
|---|---|---|
| Cementitious | TUFFLOOR PRIMER KC | See TDS61-1100 |
| Cementitious | TUFFLOOR WB EPOXY SEALER | See TDS56-700 |

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## SURFACE PREPARATION

**Cementitious-Aged Unpainted Good**

All surfaces need to be inspected once cleaned and power washed to fully establish the condition of existing surface prior to finally specifying the degree and type of preparation work.

It is strongly recommended that plaster and concrete repair work is left to age for at least 28 days before coating to allow the concrete to fully cure before application.
It is recommended that a moisture test on the concrete is carried out at this stage prior to painting. Refer INFORMATION SHEET: PS-C004 The Moisture Content of Concrete MAR 20

Moss and Algae: Any algae growth on surfaces must be killed off. The surface will need to be treated with TRUEPREP GREEN-KILL following the manufacturer's instructions. This could take multiple applications. Failure to do this and completely kill the roots of the algae that will have grown into the substrate could lead to paint failure and re growth in those areas.
All surfaces must be clean, and free from dirt, grease, and any other surface contaminant.
Clean with TRUEPREP SURFACE CLEAN following instructions, power wash (min 3500 psi) to remove residue and any loose material.
The substrate needs to be profiled to an open uniform surface suitable for priming, and consideration given as to the most appropriate method of preparation that maintains the substrates integrity.
Surface preparation: The method of preparation work (Diamond Grinding, media/soda blast (sweep blasted with fine grit), UHP blasting, or other) must be discussed and documented separately, to ensure the correct surface profile is achieved before painting.
Repair work (surface and crack repair, expansion joints, rebar rust leaching) must be discussed and documented separately. Do not expect paint to successfully bridge gaps and cracks. Refer INFORMATION SHEET: PS-C005 Repair of Concrete Defects Mar 20

**Cementitious-New Unpainted**

It is strongly recommended that plaster and concrete is left to age for at least 28 days before coating to allow the concrete to fully cure before application. It is recommended that a moisture test on the concrete is carried out at this stage prior to painting. Refer to PS-C004 The Moisture Content of Concrete.

All surfaces must be clean, and free from dirt, grease, and any other surface contaminant. Clean with TRUEPREP SURFACE CLEANER following instructions, power wash (min 3500 psi) to remove residue and any loose material. Refer PS-C006 Making Concrete Clean and Dry.

All surfaces need to be inspected once degreased and power washed to fully establish the condition of existing substrate (and remaining coating) prior to finally specifying the degree and type of preparation work. Any recommendations made prior to this are guides only.

The substrate needs to be profiled to an open uniform surface suitable for priming, and consideration given as to the most appropriate method of preparation that maintains the substrates integrity.

The method of preparation work (Grinding, media/soda blast, or UHP blasting, acid etching, sanding or other) must be discussed and documented separately. Generally, a full grind to remove existing contamination and profile the surface as above is recommended.

Repair work (surface and crack repair, expansion joints, rebar rust leaching) must be discussed and documented separately. Do not expect paint to successfully bridge gaps and cracks. Refer to PS-C005 Repair of Concrete Defects.

## MIXING INSTRUCTIONS

Just prior to painting, drill mix at low-speed part A to a smooth consistency, taking care not to aerate the product. Mix Part B into Part A h for 2-3 minutes, ensuring that the sides and bottom of the pot have been completely mixed into a smooth consistency. If using RUFF-IT PLUS non-skid add to the mix and stir for up to one minute.

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## APPLICATION

Prime the surface as per specified TUFFLOOR Primer TDS. Allow to dry. Make sure there are no open pores in the surface of the substrate otherwise air bubbles could escape and form small craters or pinholes in the self-levelling finish coat. If there are holes or open pores in the substrate fill them with TUFFLOOR 41 SL EPOXY thickened with TROWEL-IT.
AIM TO COMPLETE APPLICATION OF THE MIXED CONTAINER PRIOR TO END OF POT LIFE.

APPLICATION SELF LEVELING- Spread and Back-roll:
Pour the mix onto the floor and spread out evenly using a notched spreader (with "V" shaped teeth).
Back-roll with a spiked roller several times while the product is still wet to even out the thickness of the coating and to remove any air entrained into the product during the mixing phase.

TOOLS:
1. Squeegee Frame: 18 or 26" Easy Squeegee Frame
2. Squeegee: Mauve V Notch: 18 or 26" Easy Squeegee™ 50-60 WFT Mils Blade
3. 455mm Premium Spiked Roller – 11mm Spikes or 500mm x 11mm Economy Spiked Roller
4. Spiked Shoes

Video available: https://youtu.be/ts-ta31P5X0

APPLICATION MEDUIM 0.6mm
Squeegee: BlueV Notch: 18 or 26" Easy Squeegee™ 25-30 WFT Mils Blade
Lay off with spike roller, or float layoff with Wooster Pro-dooz 10mm nap sleeve, without downward pressure.

End of pot life is observed by a rapid increase in pot viscosity. Note: In hot weather the pot life will be shortened.

Prior to recoating, test the coating by pressing your thumb into the coating for 2 seconds. Recoat only if no impression is made in the coating. Recoat within 5 days. If longer than 5 days elapses before recoating surface should be first sanded using 120-150 grit sandpaper. Thoroughly remove sanding dust by vacuuming and washing.

**SPRAY**
Recommend an airless unit, Graco 895 or larger. Pressure 2,500psi max and a 321.
*Add up to 10% EPOTEC 107 Thinner if necessary. Back-Roll with a 10-13mm nap Wooster Pro-dooz roller sleeve to ensure even spread.

**BRUSH/ROLLER**
ROLL COAT: Use a 10-13mm nap Wooster Pro-dooz roller sleeve.

**CLEAN UP**
EPOTEC 107 thinner

## APPLICATION NOTES

NOTES:
If rooms where the product is being applied need to be warmed up, do not use heaters that burn hydrocarbons, otherwise the carbon dioxide and water vapour given off into the air will affect the sheen of the finish and may ruin its appearance. Use electric heaters only. ·

Remove aggressive chemicals as soon as possible after they meet the surface of TUFFLOOR EPOXY 41 SL ·

Use suitable cleaning equipment and detergent to clean the coating, depending on the type of dirt or stain to be removed.

## ENVIRONMENTAL

This formulation uses the latest technology with low toxicity, ensuring environmental issues are not compromised. DO NOT POUR paint or wash down storm water or water courses. ALWAYS dispose of in accordance with local Government regulations. Soak up spills with absorbent material and dispose of properly. If spraying use suitable respiratory protection. Refer to the MATERIAL SAFETY DATA SHEET

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