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TUFFLOOR 51 WB EPOXY

TDS59-7001

DESCRIPTION	An environmentally friendly water-based epoxy with a minimal degree of yellowing. Contains ≤50g/L VOC and no benzyl alcohol.
TYPICAL USES	Floors and walls which require a non-porous chemically inert and abrasion resistant finish. Such places include hospitals, schools, restaurants, abattoirs, milking sheds, dairy factories, the chemical industry and other medium to heavy industries.
ENVIRONMENT	Interior
PERFORMANCE	A premium epoxy coating with the adhesion and abrasion resistance of solvent-based epoxies but with the ease of application found in water-based products. Resistance to common solvents is slightly better than solvent-based epoxy systems. Resists water blasting and steam cleaning. ≤50g/L VOC and benzyl alcohol free makes Tuffloor WB Epoxy suitable for food contact and potable water applications. TUFFLOOR WB EPOXY may be applied to damp surfaces.
LIMITATIONS	Do not apply if the air or surface temperature during application and drying is likely to fall below 10oC or when humidity is above 80%. Gloss level will be reduced when cured at low temperatures/high humidity. Not suitable for prolonged exposure to acids. Will lose gloss and chalk if used as an exterior coating.
TECHNICAL DATA	Resin: 2 Componenet Epoxy Solvent: Water Colour: Selected RAL and AUS2700 Primer: See over. Durability: Excellent Thining and Clean Up: Water Potlife: 30-60 mins @20°C Pack Size: 6, 24 Kg Walk on Time: 24 hours (20°C/50% RH) Cure Hard @20°C: 7 days Mixing Ratio: 5:1 VOC: 15-23g/l Vol Solids: 49 percent Touch Dry: 4 hours @20 Recoat Time: 24 Hours @20°C RH 50% Max Recoat Time: 5 days @20°C RH 50% Number of Coats: 2 to 3 Theoretical Coverage: 7 m²/Kg/coat Wet Film Thickness: 133 microns Dry Film Thickness: 65 microns Specific Gravity: 1.35

AVAILABLE FINISHES @60°C

Sheen	Slip Rating	Slip Rating RUFF-IT-PLUS
Satin 10-15%	>55 V	>55 V

SPREAD RATE

First Coat: 7 - m²/Kg/coat
Second Coat: 10 - m²/Kg/coat
Practical spreading rates will vary depending on such factors as application method, ambient conditions and surface porosity and roughness.

PRODUCT CODES

59-7035, 59-7001, 59-1301, 59-2103

PRIMERS AND UNDERCOATS

Substrate	Primer / Undercoat	Technical Data Sheet
Cementitious	TUFFLOOR WB EPOXY SEALER	See TDS56-700
Timber	TUFFLOOR WB EPOXY SEALER	See TDS56-700

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SURFACE PREPARATION

Cementitious-Previously Painted Good
Confirm the existing coating type and system compatibility, referencing Cotec Information sheet: PS-C003 Paint Identification Test MAR 20.

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.

Moss and Algae: Any algae growth on surfaces must be killed off. The pool will need to be emptied and then 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 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.

Any adhesive or glue residues must be completely removed.

Existing coatings that have begun to fail (blistering, flaking, eroded, or worn) will need to be removed as far as practical from the concrete substrate. Once coatings have begun to fail (particularly if there are multiple layers of paint or worn to bare tight concrete) any attempt to paint over will result in failure.

The existing coating needs to be profiled to an open uniform surface suitable for overcoating, 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 hard sand of a good quality existing coating to profile the surface 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.

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

Ensure Part A is well mixed and smooth consistency. Mix Part B into Part A with a broad paddle for 2-3 minutes, ensuring that the sides and bottom of the pot have been completely mixed in. Allow to stand for a further 10 minutes. Stir for a further minute. AIM TO COMPLETE APPLICATION OF THE MIXED CONTAINER WITHIN 1 HOUR.

APPLICATION

End of pot life is observed by an 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 wash.

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SPRAY
Recommend an airless unit. Pressure 2,500psi max and a 519 or larger tip. Add up to 15% potable water if necessary.

BRUSH/ROLLER
Can use product as is or add up to 15% potable water if high temperatures or windy conditions. This will ease roller/brush drag and assist in keeping a wet edge. Use a 10-13mm nap WOOSTER PRO-DOOZ of similar quality epoxy safe roller sleeve.

CLEAN UP
Water, use a small amount of detergent to aid clean up.

APPLICATION NOTES

It is important to note that thinning of the product with water will improve the application and dry film appearance, particularly if the floor is unsealed, or the weather is hot and dry. Thinning by up to 15% will allow quicker application and will prevent uneven gloss and colour which is caused by back-rolling over product which has started to cure.

THINNING

Maximum thinning 15% on first coat. ONLY thin after parts A and B have been homogenously mixed in together.

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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