

TUFFLOOR 5 to 1 WB EPOXY

JUN 23

DESCRIPTION: An environmentally friendly water-based epoxy with a minimal degree of yellowing. Contains $\leq 50\text{g/L}$ 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.

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. $\leq 50\text{g/L}$ 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.

Approved NZS:4586;2004 Appendix A, WET SLIP RESISTANCE: "V".
RUFF-IT PLUS 5% mixed to 5 to 1 WB Epoxy "V"

LIMITATIONS: Do not apply if the air or surface temperature during application and drying is likely to fall below 10°C 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:	Two Component Epoxy
Solvent:	Water
Finish:	Satin (10-15% @ 60°)
Colour:	White/Limited Colours
Touch Dry (minimum):	4 hours @ 20°C
Recoat Time (minimum):	24 hours @ 20°C . Dry time is longer in winter
Primer:	Economy: Self Priming.
.	Premium: Concrete WB Epoxy
.	Sealer
Number of Coats:	2-3
Wet Film Thickness:	100-133 microns at 10-7.5 m^2/kg
Dry Film Thickness:	46-61 microns at 10-7.5 m^2/kg
Durability:	Excellent
Thinning and Clean Up:	Water
VOC:	15-23 g/litre
Pot Life:	90 minutes @ 25°C
Mixing Ratio:	5:1 by weight
Pack Size:	6kg (4.5l), 24kg (18l)

SPREAD RATE:

Theoretical Coverage: 7.5-10 $\text{m}^2/\text{kg}/\text{coat}$.
Coverage depends on surface profile and porosity.

PRODUCT CODES:

TUFFLOOR 51 WB EPOXY Light Grey RAL 7035	59-7035.06, .24
TUFFLOOR 51 WB EPOXY Mid Grey RAL 7001	59-7001.06, .24
TUFFLOOR 51 WB EPOXY WHITE BASE	59-1301.06, .24
TUFFLOOR 51 WB EPOXY ACCENT BASE	59-2103.06, .24

TUFFLOOR 51 WB EPOXY

SURFACE PREPARATION:

(Refer to [Coating Technologies \(cotec.co.nz\)](http://cotec.co.nz) for full specification details to suit substrate condition). To ensure a successful application all surfaces to be coated must be clean, dry, and stable.

All cracks and joints need to be treated as appropriate to suit the situation. Do not expect paint to bridge moving cracks/joints successfully. Any mould, moss or algae needs to be treated with TRUEPREP GREEN KILL.

Ensure surfaces are free from oil, grease, and any surface contamination. Use TRUEPREP SURFACE CLEANER as per instructions, not acid wash. Note: Commencement of work on a surface means in general you accept that surface. If any doubt about condition etc, seek advice.

CONCRETE, CEMENT PLASTER, OLD AND NEW:

Seal any cracks and joints with an epoxy rigid filler. For optimum results, abrasive grind the surface to achieve a uniform, open profile (Diamond grinding recommended). We recommend that this is carried out by a concrete grinding specialist. Surface contamination such as oil, grease etc. needs to be thoroughly removed, as this will adversely affect adhesion and visual appearance of the coating.

For a premium finish all prepared concrete should be consolidated and sealed with TUFFLOOR WB EPOXY SEALER (see Data Sheet) prior to painting.

TUFFLOOR 51 WB EPOXY can be applied directly to concrete, but better adhesion and performance will be achieved with sealing with TUFFLOOR WB EPOXY SEALER. If using in self-priming mode thin with water up to 15% for first coat. Even when correctly prepared and sealed it is still possible that tyre pick up will occur.

New concrete may also be prepared by light grinding or treatment with CONCRETE ETCH 10% (see Information sheet PS-C001 Acid Etching of Concrete with HCl) applied via broom or spray. Allow the reaction to occur for 15-20 minutes before washing off with high-volume low-pressure potable water. Rinse thoroughly to remove all residues. Allow to dry.

WOOD:

TUFFLOOR WB EPOXY will give a good finish on most timbers without the use of a primer. Some soft or porous timbers will benefit from the use of TUFFLOOR WB EPOXY SEALER.

APPLICATION:

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.**

Brush and 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.
Roller:	Use a 10-13mm nap WOOSTER PRO-DOOZ of similar quality epoxy safe roller sleeve.
Spray:	Recommend an airless unit. Pressure 2,500psi max and a 519 or larger tip. Add up to 15% potable water if necessary.

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 washing.

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 AND CLEAN UP:

Maximum thinning 15%. ONLY thin after parts A and B have been homogenously mixed in together. Clean up in water. Use a small amount of detergent to aid clean up.

ENVIRONMENTAL:

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.