



High Performance Paint Product Data Sheet



TUFF FLOOR WB EPOXY LEVELLING

56-750 MAR 20



DESCRIPTION: A waterborne, two pack, pigmented self levelling epoxy resin based flooring system.

TYPICAL USES: Concrete floors such as warehouses and light-medium use industrial floors. Pharmaceutical and laboratory floors. Display rooms, restaurants, cafes and public amenities.

PERFORMANCE: Formulated to provide a seamless flooring, offering outstanding durability, high resistance to chemical and petroleum products, and excellent appearance. The water based formulation offers the advantage of fast cure, easy clean up and low odour. Benzyl alcohol free. Excellent water vapour permeability – can be applied to damp substrates. Hard wearing, with very good scuff and abrasion resistance. May be applied at wet film builds from 1-10mm. Good flow properties to even out imperfections in the substrate, and produce a finish which is free of trowel marks. Visible end of pot life indicated by rapid viscosity increase. Can also be used as a filler to even out cracks or craters on floor surfaces prior to coating with TUFF FLOOR WB EPOXY.

LIMITATIONS: Not recommended for extreme chemical environments, or areas of high physical abuse. Not recommended for areas of high UV exposure. Product will yellow under these conditions. Ensure air and substrate temperature are above 5°C before and during application.

TECHNICAL DATA:

Resin:	Epoxy
Solvent:	Water
Finish:	Matt
Colour:	Light Grey
Walk on Time:	20-24 hours (20°C/65% RH)
Full Cure:	5-7 days (20°C/65% RH)
Primer:	TUFF FLOOR WB EPOXY SEALER
Number of Coats:	1 required
Dry Film Thickness:	See over
Wet Film Thickness:	See over
Durability:	
Thinning and Clean Up:	Water
VOC:	0 g/litre
Pot Life:	30-60 mins
Mixing Ratio:	10:1 by Weight (Part A: Part B)
Pack Size:	20 Kg (10 Litre mixed)

SEE OVER FOR EXTRA TECHNICAL DETAILS.

SPREAD RATE:

Theoretical Coverage:	2kgs/m ² = 1mm WFT (0.7mm DFT)
	20kgs/m ² = 10mm WFT (7mm DFT)

COMPUTER CODES:

Tuff Floor WB Epoxy Levelling 56-750

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TUFF FLOOR WB EPOXY LEVELLING

EXTRA TECHNICAL DATA:

Solids by Weight:	85%
Solids by Volume:	70%
Flow Out:	15.9 cm
Hardness (Shore D 20°C/65% RH):	82 @ 28 days
Coefficient of Friction:	0.28
Abrasion Resistance (wt loss mg/1000 cycles):	156
Bond Strength on Concrete:	3.5 N/mm ²
Compressive Strength:	40 N/mm ² @28 days
Tensile Strength:	8.8 N/mm ² @28 days
Flexural Strength:	8.8 N/mm ² @28 days

SURFACE PREPARATION:

(Refer to "Surface Preparation and Paint Systems" for full details). To ensure a successful application all surfaces to be coated must be clean, dry and stable.

Any mould, moss or algae should be treated with a suitable chemical cleaner / inhibitor. Surfaces should be free of oil, grease and dust.

NOTE: Commencement of work on a surface means in general that you accept that surface. If in any doubt about condition, seek advice.

New concrete may be prepared by removing any laitance with COTEC CONCRETE ETCH 10% (See data sheet).

Dense or highly polished concrete should be "opened up" by grinding.

Deep holes and defects should be filled using a suitable concrete repair mortar.

PRIMING:

Prior to application of TUFF FLOOR WB EPOXY LEVELLING, the floor should be sealed using TUFF FLOOR WB EPOXY SEALER (See Data Sheet). This will improve the flow and levelling, and reduce air bubble release from the concrete.

The sealer must be fully cured (no milky patches) before application of the self levelling epoxy.

APPLICATION:

Mark out floor into areas to be covered by each mixed 20kg pack. This will be between 1 and 10m², depending on the film thickness required.

SPREAD RATE	FILM THICKNESS
1x20kg pack per 1m ²	10mm wet film (7mm dry film)
1x20kg pack per 2m ²	5mm wet film (3.5mm dry film)
1x20kg pack per 10 m ²	1mm wet film (0.7mm dry film)

Add all contents of Part B to Part A (Use a flat ended stirrer or spatula to scrape out contents of Part B). Mix Part A and Part B for several minutes or until uniform, using a mechanical mixer such as an electric drill and paddle. Avoid high speed or prolonged mixing which causes heat build up. Heating to over 30°C will cause acceleration of the curing reaction and loss of working time.

Pour the mixed material onto the primed surface, and spread using a steel trowel or rubber squeegee, into the corners, and trowel to the desired thickness (1-10mm). Repeat mixing and applying to maintain a wet edge, working across the room.

Wearing spiked shoes, walk across the wet floor, and pass over a spiked roller. This will help release trapped air, and aid levelling.

Ensure adequate numbers of staff are available to carry out the mixing, application and spike-rolling within the working time of the product.

Product may be over coated with TUFF FLOOR WB EPOXY to achieve the desired colour choice, and for greater aesthetic appeal. TUFF FLOOR WB EPOXY LEVELLING may also be used as a filler to even out cracks and craters in floors prior to coating with TUFF FLOOR WB EPOXY.

THINNING & CLEAN UP:

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.