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TUFFLOOR WB 2K PU UNIVERSAL

TDS49-9103A

DESCRIPTION

TUFFLOOR WB 2K PU is an aliphatic 2-pack water-based polyurethane topcoat with excellent toughness, adhesion, gloss retention and mar resistance TUFFLOOR WB 2K PU is designed to produce a topcoat with high durability, impact resistance and chemical resistance. With excellent adhesion and fast set-up time, this product is a replacement for solvent-borne polyurethanes with significant reduction in VOC emissions. Used as a clearcoat it has inbuilt UV stabilisers to inhibit the effects of UV.

TYPICAL USES

TUFFLOOR WB 2K PU is designed to produce a topcoat with high durability, impact resistance and chemical resistance.
TUFFLOOR WB 2K PU is designed to go over a wide variety of primers, including, TRUEPREP DTM PRIMER, TUFF FLOOR/CONCRETE WB EPOXY SEALER and TUFF FLOOR WB EPOXY. To achieve a smooth finish, airless spraying is highly recommended. However, this product can also be applied by brush or roller over small areas. Accent base can be used untinted as a clear coat*

ENVIRONMENT

Interior/Exterior

PERFORMANCE

This is a premium 2K waterborne polyurethane topcoat. TUFFLOOR WB 2K requires at least 24 hours to reach 80% of its final strength and 3-4 weeks to reach final strength. Care should be taken while handling and transporting to avoid damage to the fresh coating.

LIMITATIONS

This is a waterborne product, which is expected to be applied over well-prepared surfaces. Depending on the conditions, the cure time may be extended; hence, it is important to protect painted surfaces to avoid any damage. Always mix well before use as the
contents may settle.

TECHNICAL DATA

Resin: Polyurethane
Product Type: Waterbased 2K Polyurethane
Solvent: Water
Colour: Clear/All Colours
Primer: See over.
Durability: Excellent
Thining and Clean Up: Water
Potlife: 3-4 Hours @20°C
Pack Size: 3.5 & 10.5 Kg
Walk on Time: Overnight @20°C
Cure Hard @20°C: 5 days
Mixing Ratio: 2.5:1
VOC: Up to 150g/l
Vol Solids: 37 percent
Touch Dry: 2 hours @20
Recoat Time: 2-4 Hours @20°C
Max Recoat Time: 48 Hours @20°C
Number of Coats: 2 to 3
Theoretical Coverage: 10 m^2/Kg/coat
Wet Film Thickness: 150 microns
Dry Film Thickness: 56 microns
Specific Gravity: 1.2

AVAILABLE FINISHES @60°C

Sheen	Slip Rating	Slip Rating RUFF-IT-PLUS
Low Sheen 10-15%	35-44 X or R10	>55 V
Satin 30%		
Gloss 80+%	25-34 Y	45-54 W

SPREAD RATE

First Coat: 10 - m^2/Kg/coat
Second Coat: 12 - m^2/Kg/coat
Practical spreading rates will vary depending on such factors as application method, ambient conditions and surface porosity and roughness.

PRODUCT CODES

49-2000, 49-2700, 49-2715, 49-2115,

PRIMERS AND UNDERCOATS

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

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SURFACE PREPARATION

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.

Plasterboard-New Unpainted
All surfaces must be clean, dirt, grease and any other surface contaminant. wipe with a damp cloth to remove dust. Avoid scuffing the paper surface substrate.

Inspect the substrate prior to applying any coating system to ensure there is no contamination present and no surface defects exists. If there is either contaminants or defects are present, rectification process is required prior to any coating is applied.

Allow to apply first coat of primer/ sealer and allow to fully cure.

If required, apply appropriate flexible paintable sealant, to gaps between skirting boards, framing and scotia's and fill any minor defects using TRUEPREP STOP-IT.

Non-Ferrous Metals-New Unpainted
All surfaces must be clean, and free from dirt, grease, and any other surface contaminant. Clean with TRUEPREP SURFACE CLEAN - A powerful water based, biodegradable, degreaser. Formulated to remove grease and other contaminants. Refer to the TDS for all general information and application.
Allow to fully dry and test the surface has been degreased by wiping with clean cotton wool to ensure there is no residue. Repeat the process if necessary.

Inspect the substrate prior to applying any coating system to ensure there is no contamination present and no surface defects exists. If there is either contaminants or defects are present, rectification process is required prior to any coating is applied.

MIXING INSTRUCTIONS

EACH GLOSS LEVEL HAS IT'S OWN SPECIFIC HARDENER SO DO NOT USE THE WRONG HARDENER.

STEP 1: take TUFFLOOR WB 2K PU Part A, and mix well for at least 60 seconds, using a drill mixer or plunger.
STEP 2: Add Part B and mix well for at least 60 seconds, ensuring the sides and bottom of the pot are mixed in. Please note, the product can thicken when Part B is added; hence extra care should be taken to ensure the two parts are dispersed properly.
STEP 3: Mix for 3 minutes.
STEP 4: If required slowly add small amounts of clean water until the correct application viscosity is reached. Thin > 5-10% by WEIGHT for brush/roller application, or >15% for spray application.
STEP 5: Allow the mixture to stand for 5 minutes, this will allow the products to initiate their chemical reaction.

STEP 6: Stir the mixture for further 1 – 2 minutes before commencing painting.

THINNING GUIDE: THIN BY WEIGHT NOT VOLUME.

APPLICATION

TUFFLOOR WB 2K PU URETHANE is designed to over coated various COTEC primers/sealers providing excellent weather, chemical and mechanical resistance.

FOR DETAILED INFORMATION ON COATING AND PRIMING SPECIFIC SUBSTRATES PLEASE REFER TO THE APPROPRIATE TUFFLOOR WB 2K PU URETHANE SPECIFICATION SHEET.

Stir well before application.

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SPRAY
Airless 308-608 FFLP tip. HVLP application is also recommended with 2mm plus set up.

Light to medium coats taking care not to overload. Avoid heavy film build when spraying (no more than 150 microns WFT), as this may result in sagging and gassing. Spray in light coats until a uniform milky white appearance over the whole surface. Application of more product at this stage could lead to sagging. Allow to tack off and apply a further coat if a “wet on wet” application is required. Otherwise, allow to dry and apply a second coat.

BRUSH/ROLLER
Brush, roller (10-13 mm Wooster Pro-dooz) sleeve

CLEAN UP
Clean up with water and detergent.

APPLICATION NOTES	If using as an anti-graffiti coating add CLEAN-IT to final coat mix. Refer to CLEAN-IT TDS for mixing instructions.
THINNING	After mixing Pack A and B, thin >5-10% with water for brush/roller application, or >15% for spray application. Thinning with water will reduce the viscosity quickly, add small amounts at a time until the correct application viscosity is reached.
SAFETY PRECAUTIONS	Refer to SDS
FIRST AID	Refer to SDS
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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