



High Performance Paint Product Data Sheet



TUFF COTE FINISH WB 2K URETHANE

49-2XXX MAR 20



DESCRIPTION: TUFF COTE FINISH WB 2K URETHANE is a 2 pack water based polyurethane topcoat with excellent toughness, adhesion, gloss retention and mar resistance. A highly durable coating suitable for medium to heavy industrial applications. With excellent adhesion and fast set-up time, this product is a replacement for solvent-borne polyurethanes with significant reduction in VOC emissions. Adopting European WB resin technologies, TUFF COTE FINISH WB 2K URETHANE is formulated to be air-dried, and applied by brush, roller or spray.

TYPICAL USES: TUFF COTE FINISH WB 2K URETHANE is designed to produce a topcoat with high durability, impact resistance and chemical resistance. TUFF COTE FINISH WB 2K URETHANE is designed to go over a wide variety of primers, including FINE FINISH SURFACER, SANDING SEALER, TUFF COTE 2K EPOXY, TUFF COTE DTM PRIMER and TUFF FLOOR WB EPOXY. See next page for general information or the relevant info sheet for specific application details. 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 un-tinted as a clear coat.

PERFORMANCE: This is a premium 2K waterborne polyurethane topcoat. TUFF COTE FINISH WB 2K URETHANE is a waterborne coating that requires at least 24 hours to reach 80% of its final strength and 3-4 weeks to reach final strength. It is recommended that 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
Solvent:	Water
Finish:	Gloss (80+% @ 60°) Low Sheen (15-20% @ 60°)
Colour:	Clear/Full colour range
Touch Dry (minimum):	4 hours @ 25°C
Recoat Time (minimum):	Overnight @ 25°C
Primer:	See over
Number of Coats:	2-3
Dry Film Thickness:	55 microns
Wet Film Thickness:	150 microns
Durability:	Excellent
Thinning and Clean Up:	Water
VOC:	
Pot Life:	3-4 hours @ 25°C.
Mixing Ratio:	Gloss - 2:1 by weight Low Sheen - 5:1 by weight
Pack Size:	3, 9 Kg Clear) 4,12 kg (white gloss) 3.5,10.5 kg (white low sheen)

SPREAD RATE:

Theoretical Coverage: 10-12 m²/kg/coat.
Coverage depends on surface profile and porosity.

COMPUTER CODES:

Tuff Cote Finish WB 2K Gloss Accent	49-2715
Tuff Cote Finish WB 2K LS Accent	49-2115
Tuff Cote Finish WB 2K Gloss White	49-2700
Tuff Cote Finish WB 2K Low Sheen White	49-2000

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Freedom from patent restrictions is not implied.

TUFF COTE FINISH WB 2K URETHANE

SURFACE PREPARATION:

(Refer to “Surface Preparation and Paint Systems” for full details). To ensure a successful application all surfaces to be coated must be degreased, clean and dry. TUFF COTE FINISH WB 2K URETHANE is an excellent general industrial topcoat which offers superior toughness and abrasion resistance.

MIXING INSTRUCTIONS:

First, take TUFF COTE FINISH WB 2K URETHANE Part A, and mix well for at least 60 seconds, using a wide paddle. 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 will thicken when Part B is added; hence extra care should be taken to ensure the two parts are dispersed properly. Mix for 3 minutes then slowly add small amounts of clean water until the correct application viscosity is reached. Allow the mixture to stand for 5 – 10 minutes, this will allow the products to initiate their chemical reaction. Stir the mixture for further 1 – 2 minutes before commencing painting.

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

TUFF COTE FINISH WB 2K URETHANE is designed to be coated over various COTEC primers/sealers providing excellent weather, chemical and mechanical resistance. The following is a guide for coating some general surfaces.

FOR DETAILED INFORMATION ON COATING SPECIFIC SUBSTRATES PLEASE REFER TO THE APPROPRIATE TUFF COTE FINISH WB 2K URETHANE INFORMATION SHEET.

STEEL/IRON:

Remove all rust, grease and oil. Apply 1-2 coats of TUFF COTE DTM PRIMER. As a further build coat, 1 coat of TUFF COTE 2K EPOXY may be applied over the TUFF COTE DTM PRIMER. Allow the primer(s) to fully cure before applying 2 coats of TUFF COTE FINISH WB 2K URETHANE. Allow overnight cure between coats.

ALUMINIUM / BRONZE:

Remove all grease/oil. Apply 1-2 coats of TUFF COTE DTM PRIMER. Allow the primer to through-dry before applying 2 coats of TUFF COTE FINISHWB 2K URETHANE. Allow overnight cure between coats.

GALVANISED IRON:

Galvanised iron sheets that are lapped must be coated in the lap areas to stop corrosion.

NEW:

All new galvanised iron has an oil/grease coating from roll forming and it must be removed before coating. This can be done by leaving the roof exposed to the elements for 3 months before painting, or by using a suitable roof wash solution.

Apply 1 coat of TUFF COTE DTM PRIMER; followed by 2 coats of TUFF COTE FINISH WB 2K URETHANE. Allow overnight cure between coats.

OLD:

Wash all areas with a suitable roof wash solution. Areas of rust must be wire-brushed, to remove loose rust etc. Apply a rust converter to convert any remaining rust. Wash thoroughly and allow to dry. Apply 1-2 coats of TUFF COTE DTM PRIMER; followed by 2 coats of TUFF COTE FINISH WB 2K URETHANE. Allow overnight cure between coats.

If roofs are being used for collection of drinking water, it is strongly recommended that roof down pipes are disconnected until after the first major rainfall event (≥10mm.)

TIMBER:

TUFF COTE FINISH WB 2K URETHANE can be applied to timber previously painted with acrylic coatings. It can also be applied to bare timber however 3 coats may be required to allow for absorption of the first coat. Alternatively, a coat of SANDING SEALER (for clear coating) or FINE FINISH SURFACER (for pigmented coating) can be applied and sanded prior to top coating). In exterior situations, TUFF COTE WB 2K URETHANE will break down from timber movement and UV degradation of the timber just like any clear coating in this environment.

CONCRETE (BLOCK, TILT SLAB ETC):

Where product is to be applied to bare substrate, ensure any laitance is removed by thorough cleaning. New concrete should be allowed to cure for a minimum of 7 days prior to coating. (28 days preferred).

FIBROLITE / EIFS:

Treat as for concrete.

PLASTIC SURFACES:

Generally, all plastic surfaces should be lightly sanded to ensure physical adhesion. Apply 1-2 coats of TUFF COTE DTM PRIMER followed by 2 coats of TUFF COTE FINISH WB 2K URETHANE. Allow overnight cure between coats.

Note: Plastic surfaces are generally very difficult substrates. It is very important that test patches are carried out ensuring the coating is fit for purpose. Different surfaces and materials should be tested on a case-by-case basis.

OTHER SURFACES:

Please seek advice from a COTEC representatives for suitable products for your applications.

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

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APPLICATION:

See MIXING INSTRUCTIONS above, stir well before application. Product can be applied by brush, roller (8-12 mm Dacron) or air-fed/airless spray.

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 overnight and apply a second coat.

THINNING & CLEAN UP:

After mixing Pack A and B, thin 5-10% with water for brush/roller application, or 15-20% for spray application. Clean up with water and detergent.

Thinning with water will reduce the viscosity quickly, add small amounts at a time until the correct application viscosity is reached.

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.