



High Performance Paint Product Data Sheet



TUFF COTE FINISH WB 1K URETHANE

49-2305 MAR 20



DESCRIPTION: TUFF COTE FINISH WB 1K URETHANE is a single pack water based polyurethane topcoat with excellent toughness, adhesion, gloss retention and mar resistance. This product is a replacement for solvent-borne polyurethanes with significant reduction in VOC emissions. Adopting European WB resin technologies, TUFF COTE FINISH WB 1K URETHANE is formulated to be air-dried, or force-dried at low temperature (below 60°C).

TYPICAL USES: TUFF COTE FINISH WB 1K URETHANE is designed to go over a wide variety of primers, including GALVANISED IRON PRIMER, EPS-10 ETCH PRIMER, TUFF COTE DTM and SANDING SEALER. See next page or the specification sheet for further details. To achieve a smooth finish, airless spraying is highly recommended. However, this product can also be applied by a brush or roller over small areas.

PERFORMANCE: This is a premium single pack waterborne polyurethane topcoat with ability to self-crosslink. TUFF COTE FINISH WB 1K URETHANE is a waterborne coating that requires at least 24 hours to reach 80% of its final strength and 2 weeks to reach 95% 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-degreased 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 dispersion
Solvent:	Water
Finish:	Gloss (60-70% @ 60°) Satin (20-30% @ 60°)
Colour:	Clear/Full colour range
Touch Dry (minimum):	90 min @ 25°C, 30 min @ 60°C
Recoat Time (minimum):	120 min @ 25°C, 40 min @ 60°C
Primer:	See over
Number of Coats:	2
Dry Film Thickness:	70 microns
Wet Film Thickness:	150 microns
Durability:	Excellent
Thinning and Clean Up:	Water
VOC:	
Pack Size:	4 Litre

SPREAD RATE:

Theoretical Coverage:	10-12 m ² /litre/coat.
Coverage depends on surface profile and porosity.	

COMPUTER CODES:

Tuff Cote Finish WB 1K Gloss Accent	49-2705
Tuff Cote Finish WB 1K Satin Accent	49-2305

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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 1K URETHANE is an excellent general industrial topcoat which offers superior toughness and abrasion resistance.

TUFF COTE FINISH WB 1K 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.

STEEL/IRON:

Remove all rust, grease and oil. Apply 1 coat of TUFF COTE DTM or GALVANISED IRON PRIMER. Allow the primer to through-dry before applying 2 coats of TUFF COTE FINISH WB 1K URETHANE. Allow at least 2 hours between coats.

ALUMINIUM / BRONZE:

Remove all grease/oil. Apply 1 coat of TUFF COTE DTM or EPS-10 ETCH PRIMER or GALVANISED IRON PRIMER. Allow the primer to through-dry before applying 2 coats of TUFF COTE FINISH WB 1K URETHANE. Allow at least 2 hours between coats.

GALVANISED IRON:

NEW: All new galvanised iron has an oil/grease coating from roll forming and it must be removed before coating. Apply 1 coat of TUFF COTE DTM or GALVANISED IRON PRIMER; followed by 2 coats of TUFF COTE FINISH WB 1K URETHANE. Allow at least 2 hours between coats.

OLD: Areas of rust must be wire-brushed, to remove loose rust etc. Apply RUSTKILL to convert any remaining rust. Wash thoroughly and allow to dry. Apply 1 coat of TUFF COTE DTM or GALVANISED IRON PRIMER; followed by 2 coats of TUFF COTE FINISH WB 1K URETHANE. Allow at least 2 hours between coats.

WOOD SURFACES:

Apply to clean well sanded surface. Use the first coat thinned 5% as a sealer coat. Lightly sand to de nib and Remove raised fibres then apply the second coat. If a smoother or more easily sanded surface is required apply CLEAR SANDING SEALER first then 2 coats of Tuff Cote Finish 1K.

OTHER SURFACES:

Please seek advice from a COTEC representative 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.

APPLICATION:

Stir well before application. Product may be thinned up to 10% with water to ease application, especially when spraying.

Brush and Roller: Use product as supplied.

Roller: Use an 8-12mm nap dacron roller.

Spray: Airless spraying is recommended. Pressure 2,500psi max and a 209 tip for detailed work and 413 tip for general application. Best performance is achieved by an initial low-build pass (tack coat), followed by a full spray of finish coat.

Force Drying: This product is suitable for force drying. However, the drying conditions should be strictly controlled (under 60°C) to prevent any blistering or mud-cracking.

THINNING & CLEAN UP:

Maximum thinning is 10%. Clean up with water and detergent.

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.