

ACOTHANE TU BRUSH GRADE

PRODUCT DESCRIPTION

High build solvent-free two pack modified urethane coating with outstanding physical properties in terms of flexural strength, tensile strength, impact resistance, hardness etc.

USES

Protection of steel and concrete structures in aggressive environments e.g. internal and external protection for pipelines, offshore splash zones, chemical plants, effluent tanks etc. Designed for application to small areas, or where spray application is impractical, also suitable for repair to mechanically damaged coating and upgrading of 'below thickness' spray applied Acothane TU.

TECHNICAL PROPERTIES

Colour	Black		
Finish			
Curing Agent	Acothane Activator		
Mix Ratio			
Specific Gravity			
Volume Solids	100%		
Recommended Film Thickness	500µ per coat. 2 or 3 coats normally required for optimum performance.		
Theoretical Spreading Rate	2 m ² /litre @ 500µ		
Application Method	Brush		
Flash Point	200°C		
VOC	0 g/litre.		
Drying Times	10°C	20°C	30°C
Touch Dry		1-2 hours	
Hard Dry		6-8 hours	
Full Cure*		14 days	
Minimum Overcoat		1 hour	
Maximum Overcoat		24 hours	

* At low temperature curing rate will be slower.

CERTIFICATION/APPROVALS

RECOMMENDED SYSTEMS On concrete seal with U-Coat 501

SURFACE PREPARATION

Steel: Ensure surfaces are clean, dry and free from contaminants. Grit blast to BS 7079 standard SA 2 ½, to an amplitude of 50-100 microns. Overlap areas should be firm and well abraded.

Concrete: Remove all laitance and other contaminants by most appropriate method e.g. blast cleaning. Ensure the concrete is dry to a reading of less than 16% on the Wood Moisture Equivalent (WME) scale of the Protimeter Surveymaster SM Moisture Meter or similar instrument. Seal with U-Coat 501 and re-coat in accordance with data sheet U8.

PRODUCT APPLICATION

Mixing	Stir base to ease structure, then add one complete unit of correct activator. Mix thoroughly, scraping sides and bottom of can, then decant into a clean container and further mix to ensure a uniform blend and use before pot life expires. In cold conditions it is recommended that the material temperature is maintained at approx. 20°C to assist mixing (water entrapment must be avoided). Pot life 15-25 minutes @ 20°C.
Thinners	Do not thin.
Brush	Once mixed use immediately
Roller	
Conventional Spray	
Airless Spray	
Air Assisted Airless Spray	
Cleaner	Thinner No.4
Cleanup Considerations	All equipment should be cleaned immediately after use with Thinner No.4 It is advisable that equipment should be cleaned/flushed during the course of application, the frequency of which will depend on the volume of material used and timescale over which applied. Ensure all waste materials (including packaging) are disposed of in accordance with local regulations.

HEALTH, SAFETY & ENVIRONMENTAL

This product must be used in accordance with the Material Safety Data Sheet supplied by Spencer Coatings Limited.
The user must observe local health, safety and environmental regulations when using this product.
Consult Spencer Coatings Limited if there are any concerns over the suitability of this product.

PACK SIZES

PACK WEIGHTS

STORAGE CONDITIONS

Shelf life : 12 months unopened in moderate, dry storage conditions

LIMITATIONS

Normal application requires relative humidity below 80%. To avoid risk of condensation, application should be performed only when the steel surface temperature is at least 3°C (5°F) above dew point. Application at temperatures below 1°C (33°F) must be carefully monitored since the possible presence of ice on the surface (or in the pores in the case of concrete) will result in poor performance.

Temperature: At Application: Preferably above 0°C ambient
In Service: Immersion 0 to 80°C depending on solution
Dry -20 to 110°C continuous

Note: This material contains coal tar pitch products and is not designed for use on applications in direct contact with potable water or foodstuffs.

<u>TEST</u>	<u>SPECIFICATION</u>	<u>RESULT</u>
Bond Strength	ISO 4624 (Grit Blasted Steel)	>10 Mpa @ 23°C
Water Vapour Permeability	DIN 52615	0.005 metric/perm. Cm
Shrinkage	-	Negligible
Impact	ASTM 2794 – 69/14	10 N.M.
Tensile Strength	DIN 53504	10-13 N/mm ²
Elongation	ASTM D2370	20-35%
Shore Hardness	-	‘D’ 65-70 approx.
Flexibility	British Gas PS/CW6	Pass 2% strain at 5°C
Cathodic Disbonding	DIN 30671 (30 days @ 23°C) 1 mm Thickness	Pass
	DIN 30671 (2 days @ 65°C) 1 mm Thickness	Pass

DISCLAIMER

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It is the user's responsibility to ensure that this sheet is current prior to using the product.