

ACOTHANE TU SPRAY GRADE (MS)

PRODUCT DESCRIPTION

High build solvent-free two pack pitch modified polyurethane with outstanding physical properties in terms of flexural strength, tensile strength, impact, abrasion and penetration resistance etc. A rapid cure, very short pot life version for use with automatic/line travel spray equipment is also available (see data sheet A24).

USES

Protection of steel and concrete structures in aggressive environments e.g. internal and external protection of pipelines, offshore splash zones, chemical plants, piling, effluent tanks etc.

TECHNICAL PROPERTIES

Colour	Black		
Finish			
Curing Agent	Acothane Activator		
Mix Ratio	4 Base : 1 Activator by volume		
Specific Gravity			
Volume Solids	100%		
Recommended Film Thickness	Can be applied at 0.5 –5.0 mm. in one continuous wet on wet application, specified thickness is dependent upon service conditions.		
Theoretical Spreading Rate	1 m ² /litre @ 1mm.		
Application Method	Plural component hot airless spray.		
Flash Point	200°C		
VOC	0 g/litre.		
Drying Times	10°C	20°C	30°C
Touch Dry		40-60 mins.	
Hard Dry		4-8 hours	
Full Cure*		14 days	
Stackable		16-24 hours	
Maximum Overcoat		24 hours	

*At low temperatures curing rate will be slower.

CERTIFICATION/APPROVALS

RECOMMENDED SYSTEMS On concrete seal with U-Coat 501

SURFACE PREPARATION

- Steel: Ensure surface is clean, dry and contaminant free. Grit blast to BS 7079 standard SA 2 ½ to an amplitude of 50 – 100 microns.
- 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.

PRODUCT APPLICATION

Mixing	4 : 1 by volume. Pot life 5-7 mins. @ 20°C approx.
Thinners	Do not thin.
Brush	
Roller	
Conventional Spray	
Airless Spray	Approved twin component hot airless spray machine
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

LIMITATIONS

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

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

<u>TEST</u>	<u>SPECIFICATION</u>	<u>RESULT</u>
Bond Strength	DIN 53232 (Steel)	70 kg/cm ²
	DIN 53151 (Cross cut)	Glass G1
Shrinkage	-	Negligible
Impact	ASTM 2794 – 69/14	10 N.M.
Tensile Strength	DIN 53504	10-13 N/mm ²
Elongation	ASTM D2370	20-35%
Cathodic Disbonding (electrolyte-sodium chloride 3% w/v)	(i) DIN 30671 (30 days @ 23°C) 1200 mV (H2) 1 mm thickness	Pass
	(ii) DIN 30671 (2 days @ 65°C) 1200 mV (H2) 1 mm Thickness	Pass
	(iii) British Gas PS/CW6 (28 days @ 20°C) 1500 mV (calomel) 1.5 mm Thickness	Pass
Shore Hardness	-	'D' 65-70 approx.
Penetration	DIN 30671	Under 30%
Flexibility	British Gas PS/CW6	Pass
Water Vapour Permeability	DIN 52615	0.005 metric/perm.cm.

DISCLAIMER

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