

ACOTHANE SPRAY GRADE

PRODUCT DESCRIPTION

High build solvent-free two pack polyurethane with outstanding physical properties in terms of flexural strength, tensile strength, impact and abrasion resistance.

USES

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

TECHNICAL PROPERTIES

Colour	Cream, Grey, restricted additional colours		
Finish			
Curing Agent	Acothane Activator		
Mix Ratio	3 Base : 1 Activator by volume		
Specific Gravity			
Volume Solids	100%		
Recommended Film Thickness	Can be applied at 0.5 mm – 5.0 mm. in one continuous wet on wet application, specified thickness is dependent upon service conditions		
Theoretical Spreading Rate	1 m ² /litre @ 1 mm.		
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		30-45 mins.	
Hard Dry		4 hours	
Stackable		8 hours	
Full Cure*		14 days	

*At low temperature curing rate will be slower.

CERTIFICATION/APPROVALS

BS6920: Part 1: 2000 “Specification” – Complying with the requirements for Water Regulations Advisory Scheme tests on water quality and is suitable for use with cold water

RECOMMENDED SYSTEMS

On concrete seal with U-Coat 501

SURFACE PREPARATION

- Steel:** Ensure surfaces are free from grease, oil salts etc. Grit blast to minimum BS 7079 standard SA 2 ½ - surface profile depth 75-100 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 ratio	3 : 1 by volume. Pot life 5 mins. @ 20°C.
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

Supplied in full 25 litre and 200 litre drums of Base and Activator in the ratio of 3:1, giving 100 litre and 800 litre units respectively.

PACK WEIGHTS

STORAGE CONDITIONS

Shelf life: 12 months

LIMITATIONS

Temperature:	At Application:	Preferably above 0°C ambient
	In Service:	Immersion 0 to 70°C depending on solution
		Dry -20 to 120°C continuous

<u>TEST</u>	<u>SPECIFICATION</u>	<u>RESULT</u>
Bond Strength	DIN 53232 (Primed and Unprimed Steel)	150 kg/cm ²
	DIN 53151 (Cross cut)	Glass G1
Water Vapour Permeability	DIN 52615	0.005 metric/perm.cm
Shrinkage	-	Negligible
Impact	ASTM 2794 – 69/14	20 N.M.
Tensile Strength	DIN 53504	20 N/mm ²
Elongation	ASTM D2370	20-35%
Abrasion Resistance	ASTM 4060, CS17, 1 kg. load, 1000 cycles	<100 mg. loss
Shore Hardness	-	'D' 80 approx.
Flexibility	British Gas GBE/CW6	Pass 2% strain @ 5°C
Cathodic Disbonding	British Gas GBE/CW6 (28 days @ 20°C) 1500 mV (calomel) 1.5 mm DFT 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.