

ACOTHANE ENCAPSULATION COMPOUND

PRODUCT DESCRIPTION

A two pack solvent-free pouring grade polyurethane with excellent mechanical properties.

USES

Encapsulation of pipe couplings, self levelling filler, high strength grout.

TECHNICAL PROPERTIES

Colour	Grey			
Finish	Glossy			
Curing Agent	Acothane Activator			
Mix Ratio	3 Base : 1 Activator by volume			
Specific Gravity				
Volume Solids	100%			
Recommended Film Thickness				
Theoretical Spreading Rate	n/a			
Application Method				
Flash Point	200°C			
VOC	0 g/litre.			
Drying Times	10°C	20°C	30°C	
Touch Dry				
Hard Dry		12 – 16 hours		
Full Cure*		14 days		
Minimum Overcoat		Product not normally recoated		
Maximum Overcoat				

*At low temperature curing rate will be slower.

CERTIFICATION/APPROVALS

RECOMMENDED SYSTEMS

SURFACE PREPARATION

Steel : Ensure surfaces are clean, dry and free from oil, grease, salts and other contaminants. Grit blast to minimum SA 2 ½ to give a recommended surface profile depth of 75-100 microns.

Fusion Bonded Epoxy : Thoroughly abrade to remove gloss and produce a surface profile e.g. sweep blast.

PRODUCT APPLICATION

Mixing

Activator must be added to base and thoroughly mixed, ensuring an even mix throughout the 'pot'. Care must be taken to avoid unmixed material being left on sides and bottom of drum. Decanting mixed material into a clean container and further mixing is recommended. The container may be used for further mixes in a continuous production situation. Mixed material must be used within 30 minutes. Pot life @ 20°C – approx. 25-30 minutes.

Thinners

Do not thin.

Brush

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

20 litre

PACK WEIGHTS

STORAGE CONDITIONS

Shelf life: 12 months

LIMITATIONS

Normal application requires relative humidity below 80%. To avoid risk of condensation, application should be done only when the temperature of the steel surface is at least 3°C (5°F) higher than dew point. Application at temperatures below 1°C (33°F) must be watched carefully since the possible presence of ice in the pores of the surface could result in poor adhesion and reduced performance.

Temperature: At Application : Preferably above 0°C – surfaces free from ice/ condensation.

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 (Grit blasted steel)	15 N/mm ²
Water Vapour Permeability	DIN 52615	0.005 metric/perm. cm
Viscosity	Brookfield @ 25°C	8000 – 12000 cps
Impact	ASTM 2794 – 69/14	20 N.M.
Tensile Strength	DIN 53504 – 13	20 N/mm ²
Shrinkage	-	None
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 PS/CW6	Pass 2% strain at 5°C
Cathodic Disbonding	British Gas GBE/CW6 - 28 days at 20°C –1500 av (calomel)	Thickness 1.5mm DFT – Pass

DISCLAIMER

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