PRODUCT DATA

COPON HYCOTE EA5 WB

PRODUCT DESCRIPTION

TWO COMPONENT WATER-BORNE EPOXY COATING

COPON HYCOTE EA5 WB is a member of the expanding range of Copon high performance water-borne coatings. It has been specifically developed for original equipment manufacture, particularly within the rail, automotive and commercial transport industries.

COPON HYCOTE EA5 WB has been formulated for single coat application. It combines a very a high level of corrosion resistance with an appropriate level of finish. As such, this coating delivers substantial cost savings from reductions in process times and resultant increases in throughput.

Standard Colour Availability	Manufactured to order from a select range of BS 381C, BS 4800 Munsell, NCS and RAL colour standards in a satin sheen finish subject to minimum batch manufacture.

GENERAL PROPERTIES

Corrosion Resistance	Excellent corrosion resistance in conjunction with appropriate pre-treatment.
Abrasion	Good resistance to abrasion and mechanical damage.
Adhesion	Excellent on correctly prepared surfaces.
Chemical Resistance	The fully cured coating offers outstanding resistance to aqueous solutions and a wide range of industrial chemicals.
Temperature	Dry service temperature range up to 100°C.
Potable Water Contact	Water Regulations Advisory Scheme - Approved Product

FIRE PERFORMANCE TEST DATA

COPON HYCOTE EA5 WB systems have been extensively tested on a wide variety of substrates to a range of British and other International Standards, full test results are available on request from the E Wood Technical Centre. Tests carried out include:-

BS 476 - Part 7	Class 1 Surface Spread of Flame
BS 476 - Part 6	Class 0 in accordance with UK Building Regulations
BS6853	Annex D Section 8.4 (Panel Test)

PHYSICAL CONSTANTS

Total Solids Content (Average) by volume	45%	
Specific Gravity (Average Mixed)	1.24	
V.O.C. (As Supplied)	100 gm/litre	
NOTE:	Thinning for spray application will reduce the applied V.O.C.	
Film Thickness (Typical)	Wet 180 microns	Wet 330 microns
	Dry 80 microns	Dry 150 microns
Note:	The thickness to be applied should be agreed between the specifier and the manufacturer dependant on operational preformance requirements.	
Theoretical Coverage Rate	5.6 m² per litre at 80 microns dft.	3m² per litre at 150 microns dft.

SURFACE PREPARATION

METHOD	Surfaces should be preferably abrasive blast cleaned to Sa 2½ BS 7079 Part A1 1989/ ISO 8501-1:1988 with a medium profile. If abrasive blast cleaning is not possible surfaces can be high pressure water jetted in combination with the appropriate pre-treatment. Surfaces should be clean, dry and free from contamination.

(continued overleaf)

MIXING

Number of Components	Supplied in two parts: Base component and Activator component.
Mixing Ratio	5 parts Base component.
(by volume)	1 part Activator component.
Pot (Usable) Life	Approximately 4 hours at 20°C.
Method of Mixing	Stir the contents of the base component. Continue stirring whilst gradually adding the total contents of the activator container. Continue stirring until a homogeneous mix is obtained.
Note	When mixing complete units of product, the use of a slow or variable speed mechancal mixer is beneficial in terms of ease and complete mixing.

APPLICATION

Conditions for Application	a) Do not apply when relative humidity exceeds 85% or when the surface to be coated is less than 3°C above the dew point. b) For optimum results a minimum material and substrate temperature of 15°C is necessary. c) Primed surfaces should be clean, dry and free from oil and grease.
Method	COPON HYCOTE EA5 WB can be applied by conventional or airless spray equipment. Full details are available from the Copon Technical Centre at E. Wood Ltd. Ideally dedicated spray equipment should be used for applying water borne coating. If this is not possible, equipment should be first flushed with a solvent related to the previous solvent based coating. This should then be followed by a second flushing using COPON 3000 CLEANING SOLVENT water miscible solvent then by rinsing through with clean water. After use, wash out with clean water followed by flushing with COPON 3000 CLEANING SOLVENT.

DRYING AND CURE TIMES AT 20°C

Touch Dry -	1 hour
Hard Dry -	24 hours
Dry for Packing -	72 hours (dependant on colour, gloss and total dft)
Full cure -	7 days

HEALTH & SAFETY

1. COPON HYCOTE EA5 WB is a water based system and does not present any health hazard during normal industrial use.
2. Undue contact with the skin should be avoided. Any affected areas should be washed with soap and water.
3. Where eye contact occurs, the eye should be washed immediately with copious clean water.

NOTE: Full Health & Safety Data is available from E Wood Ltd.

PACKAGING AND STORAGE

Supplied in either 5 litre packs or the Base and Activator supplied separately in 20 litre containers. (5 Base and 1 Activator)
Use within 2 years of purchase. Store in original sealed containers at temperatures between 5°C and 30°C. Protect from frost during storage and use.

Copon System Recommendations take precedence over individual Copon Product Data Sheets and are available on request.

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