

PRODUCT DESCRIPTION

TWO COMPONENT WATER-BORNE POLYURETHANE COATING

COPON HYCOTE DICOL-METALLIC has been developed for use with COPON HYCOTE DICOL CLEAR to provide a highly durable Metallic finish incorporating an extensive and diverse range of application and performance characteristics. COPON HYCOTE DICOL-METALLIC being a water-borne coating, does not present the same handling and application health and safety risks associated with traditional solvent based high performance materials. COPON HYCOTE DICOL-METALLIC provides outstanding resistance to a variety of climatic and many other environmental and operational conditions.

Standard Colour Availability Can be manufactured in a limited range of metallic colours, subject to minimum batch manufacture.

GENERAL PROPERTIES

Adhesion Excellent in combination with either COPON HYCOTE EA9WB or COPON HYCOTE 51WT.

Chemical Resistance Good resistance to oils, fats, aqueous solution and most industrial chemicals.

Corrosion Resistance Unaffected by salt water or aggressive industrial environments.

FIRE PERFORMANCE TEST DATA

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

BS476-Part 7 Class 1 Surface Spread of Flame
BS476-Part 6 Class 0 in accordance with UK Building Regulations
BS6853 Annex D
 Section 8.4 (Panel Test)
 NOTE: Toxicity Valve 'R' in accordance with BS6853 Annex B are also available from E. Wood Technical Centre.

PHYSICAL CONSTANTS

Total Solids Content (Average By) Volume 50%

V.O.C 240gm/litre. Note: Thinning for spray application will reduce the applied V.O.C.

Specific Gravity (Average Mixed) 1.14

Film Thickness (Typical) Wet 50 microns Dry 25 microns
Note: The thickness to be applied should be agreed between the supplier and the manufacturer dependent on operational performance requirements.

Theoretical Coverage Rate 20 sq/ metres per litre at 25 microns dft

SURFACE PREPARATION

METHOD All surfaces should be prepared and primed in accordance with the appropriate 'COPON SYSTEM RECOMMENDATION'. Primed surfaces should be clean, dry and free from contamination.

MIXING

Number of Components	Supplied in two parts: Base component and Activator component.
Mixing Ratio	5 parts Base component. 1 part Activator component.
Pot (Usable) Life	Approximately 1½ hours at 20°C
Method of Mixing	The Base component should be stirred using a variable speed mechanical mixer with the mixer set at approximately 1000 rpm. The Activator component should be slowly added whilst continuing stirring until a uniform mix is achieved.

APPLICATION

- Conditions for Application**
- Do not apply when the Relative Humidity exceeds 85% or when the surface to be coated is less than 3°C above the dew point.
 - Minimum temperature for application is 5°C.

METHOD COPON HYCOTE DICOL-METALLIC is primarily designed for spray application. COPON HYCOTE DICOL-METALLIC can be applied by various types of spray equipment. Full details are available from the Copon Technical Centre. The mixed material will typically require thinning for conventional spray application depending on application conditions and equipment being used. Thinning should be carried out using clean water. Optimum results are obtained with an application viscosity of 40 seconds (DIN 4cup) and a material temperature of 15-25°C.

Note: Excessive thinning to compensate for low material temperatures should be avoided. Optimum cosmetic appearance is achieved by applying two mist coats of COPON HYCOTE DICOL-METALLIC at 40-50 microns wet per coat with 15-20 minutes between each coat.

Typical spray settings are: Air Spray - Suction Feed
Iwata W-200
K2 Aircap
1.4 Spray tip

Ideally dedicated spray equipment should be used for applying water-borne coating. If this is not possible, equipment should first be 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, a 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	-	Approx 2 hours
Hard Dry	-	16 hours
Full Cure	-	7 days
Overcoating	-	Minimum 3-4 hours with COPONHYCOTE DICOL CLEAR
Maximum		48 hours

HEALTH & SAFETY

- COPON HYCOTE DICOL-METALLIC is a water borne system and therefore does not present any health hazards during use.
- Adequate ventilation must be provided during use.
- Undue contact with the skin should be avoided.
- Vapour masks should be worn for spray application.

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

PACKAGING & STORAGE

3 Litre Packs comprising 2.5 litres of base in a 5 litre container and 0.5 litre activator in a 500ml container.

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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