



## PRODUCT DESCRIPTION

### TWO COMPONENT WATER-BORNE POLYURETHANE COATING

COPON HYCOTE DICOL has been developed to provide a highly durable direct gloss colour finish coat, incorporating an extensive range of performance characteristics.

COPON HYCOTE DICOL 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 provides outstanding resistance to a variety of climatic and many other environmental and operational conditions.

COPON HYCOTE DICOL, as a direct gloss colour, can be readily repaired.

**Standard Colour Availability** Can be manufactured to selected BS318C, BS4800 or RAL standard colours subject to minimum batch manufacture.

## GENERAL PROPERTIES

**Adhesion** Excellent in combination with either COPON EA9WB or COPON HYCOTE 51WT.  
**Corrosion Resistance** Unaffected by salt water or aggressive industrial environments.  
**Chemical Resistance** Good resistance to oils, fats, aqueous solution and most industrial chemicals.

## FIRE PERFORMANCE TEST DATA

COPON HYCOTE DICOL systems have been tested on a variety of substrates to a range of British Standards 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 values 'R' in accordance with BS6853 Annex B are also available from E Wood Technical Centre.

## PHYSICAL CONSTANTS

**Total Solids Content (Average by Volume)** 50%  
**Specific Gravity (Average Mixed)** 1.14  
**V.O.C. (As Supplied)** 106 gm/litre Colours 130gm/litre clear  
**Note:** Thinning for spray application will reduce the applied V.O.C.  
**Film Thickness (Typical)** Wet 100 microns Dry 50 microns.  
**Note** The thickness to be applied should be agreed between the specifier and the manufacturer dependant on operational performance requirements.  
**Theoretical Coverage Rate** 10 m<sup>2</sup> per litre at 50 microns dft

## SURFACE PREPARATION

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 (by volume)** 3.5 parts Base component (coloured) or 3 parts Base component (clear finish).  
1 part Activator component  
**Pot (Usable) Life** Approximately 1½ hours at 20°C.  
**Method of Mixing** To ensure a homogenous mix, the activator together with approximately 10% by volume (of the total mix quantity) of clean water should be added to the base and thoroughly mixed, and the viscosity checked. The viscosity should then be adjusted to 30 to 40 seconds (DIN 4 cup) at a material temperature of 20°C.

*(continued overleaf)*

## 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) Minimum temperature for application is 5°C.
- METHOD** COPON HYCOTE DICOL is primarily designed for spray application. COPON HYCOTE DICOL can be applied by various types of spray equipment. Full details are available from the Copon Technical Centre. Thinning should be carried out using clean water.

**NOTE:** Excessive thinning to compensate for low material temperatures should be avoided.

**Typical spray settings are:  
Conventional Spray**

Pressure Pot  
Needle Setup 1.0 - 1.4mm

**Note:** 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	4 hours
Hard Dry	16 hours
Full Cure	7 days
Overcoating	Minimum 4 hours Maximum 48 hours

## HEALTH & SAFETY

1. COPON HYCOTE DICOL is a water based system and does not present any health hazard during normal industrial use.
2. Adequate ventilation must be provided during use.
3. Undue contact with the skin should be avoided.
4. Vapour masks should be worn for spray application.

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

## PACKAGING

Supplied in 2.25 Litre Packs.

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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