PRODUCT DATA

# COPON HYCOTE PU WB COLOUR

## PRODUCT DESCRIPTION

TWO COMPONENT WATER-BORNE POLYURETHANE COATING

COPON HYCOTE PU WB COLOUR is a high performance pigmented water-borne polyurethane coating, designed to be overcoated with COPON HYCOTE PU WB CLEAR.

COPON HYCOTE PU WB COLOUR and clear system offers outstanding resistance to a variety of climatic and other operational conditions, excellent resistance to UV light, a high order of 'Ease of Graffiti Removal' as well as long term resistance to abrasion and impact.

Overcoating with COPON HYCOTE PU WB CLEAR offers a range of gloss levels from semi-matt to full gloss.

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

## GENERAL PROPERTIES

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| **Adhesion** | Excellent in combination with either COPON HYCOTE EA9 WB 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 PU WB COLOUR systems have been extensively tested on a wide variety of substrates to a range of British Standards. Full test results are available on request from E Wood Technical Centre. Tests carried out include:-

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| 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 the E Wood Technical Centre**.** |

## PHYSICAL CONSTANTS

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| **Total Solids Content (Average) by volume** | 47% |
| **Specific Gravity (Average mixed)** | 1.23 |
| **V.O.C. (As Supplied)** | 67gm/litre.<br>**NOTE:** Thinning for spray application will reduce the applied V.O.C. |
| **Film Thickness (Typical)** | Wet 85 microns. Dry 40 microns<br>**NOTE:** The actual thickness to be applied should be agreed between the specifier and the manufacturer dependant on operational performance requirements. |
| **Theoretical Coverage Rate** | 11.75 $m^2$ per litre at 40 microns dft. |

## SURFACE PREPARATION

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

*(continued overleaf)*

## MIXING

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| **Number of Components** | Supplied in two parts: Base component and Activator component. |
| **Mixing Ratio (by volume)** | 4 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 set at approximately 1000 rpm. The Activator component should be slowly added whilst continuing stirring. As the activator is added the mix will thicken up and the speed of the stirrer should be increased to offset this thickening. Continue adding the activator slowly under constant stirring until the total contents are added. The mixed product requires an induction period of 30 minutes prior to thinning and application. |

## APPLICATION

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| **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.<br>b) Minimum temperature for application is 5°C. |
| **Method** | COPON HYCOTE PU WB COLOUR is designed primarily for spray application but can be applied by brush to small areas for touch up and damage repair. For large scale application by brush COPON HYCOTE PU WB COLOUR (Brushing Grade) will be manufactured.<br>COPON HYCOTE PU WB COLOUR can be sprayed using most common types of equipment - full details are available from the Copon Technical Centre.<br><br>**NOTE:** The mixed material will require 10% thinning for spray application depending on colour, application conditions and equipment being used. Thinning should be carried out using clean water. Thinning must not be carried out until after the 30 minutes induction period. Normal recommendations are 30 microns dry film thickness for COPON HYCOTE PU WB COLOUR when overcoated with clear finish or 40 microns dft when used as a finish coat alone. |
| **Typical Spray Settings are:** | |
| **Conventional Spray** | Pressure Pot<br>Needle Setup 1.1 - 1.8mm |

## HEALTH & SAFETY

1. COPON HYCOTE PU WB COLOUR 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 AND STORAGE

Supplied in $4^{1/2}$ litre packs
Use within 12 months of purchase. Store in original sealed containers at tempertures 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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