

## PRODUCT DESCRIPTION

### TWO COMPONENT WATER-BORNE POLYURETHANE COATING

COPON HYCOTE PU WB AG has been developed to provide a highly durable coloured finish coat with an extensive range of performance characteristics.

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

COPON HYCOTE PU WB AG has been specifically developed to provide a high quality durable finish for phenolic and other plastic laminates, but it is also suitable for application to metallic substrates primed with COPON HYCOTE EA9 WB.

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

## GENERAL PROPERTIES

<b>Adhesion</b>	Excellent to correctly prepared substrates.
<b>Graffiti Resistance</b>	Excellent resistance to most inks, paints & markers.
<b>Chemical Resistance</b>	Good resistance to oils, fats, aqueous solution and many industrial chemicals.
<b>Fire Hazard Performance</b>	Tested to various British and Overseas Standards.

## FIRE PERFORMANCE TEST DATA

COPON HYCOTE PU WB systems have been extensively tested on a 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:-

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:	Toxity values 'R' in accordance with BS6853 Annex B are also available from E Wood Technical Centre.

## PHYSICAL CONSTANTS

<b>Total Solids Content (Average) by Volume</b>	45%
<b>Specific Gravity (Average Mixed)</b>	Colour 1.2 Clear 1.1
<b>V.O.C. (As Supplied)</b>	Colour 78 gm/litre Clear 104gm/litre.
<b>NOTE:</b>	Thinning for spray application will reduce the applied V.O.C.
<b>Film Thickness (Typical)</b>	Wet 110 microns Dry 50 microns
<b>Note:</b>	Normal recommendations are 50 microns dry film thickness as a single coat, a second coat may be necessary with some colours to achieve complete obliteration of the substrate. The thickness to be applied should be agreed between the specifier and the manufacturer dependent on operational requirements.
<b>Theoretical Coverage Rate</b>	9 m <sup>2</sup> per litre at 50 microns dft

## SURFACE PREPARATION

<b>METHOD</b>	All surfaces should be prepared in accordance with the appropriate 'COPON SYSTEM RECOMMENDATION'. Prepared surfaces should be clean, dry and free from contamination.
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## MIXING

<b>Number of Components</b>	Supplied in two parts: Base component and Activator component.
<b>Mixing Ratio (by volume)</b>	3 parts Base component.        } colour finishes 1 part Activator component.    } 2 parts base component         } clear finish 1 part activator component     }
<b>Pot (Usable) Life</b>	Approximately 1 hour at 20°C.
<b>Method of Mixing</b>	Stir the contents of the base component. Continue stirring and gradually add the total contents of the activator component. Continue stirring until a homogenous mix is obtained.

## APPLICATION

<b>Conditions for Application</b>	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.
<b>Method</b>	COPON HYCOTE PU WB AG is primarily designed for spray application. COPON HYCOTE PU WB AG can be sprayed using most common types of equipment - full details are available from the Copon Technical Centre.
<b>NOTE:</b>	The mixed Copon Hycote PUWB AG colour material will require 10-15% thinning by volume for spray application depending on colour, application conditions and equipment being used. The Copon Hycote PUWB AG Clear is essentially supplied ready for use, but may require slight thinning to aid application dependant on equipment. Thinning should be carried out using clean water.
<b>Typical Spray Settings Are:- Conventional Spray</b>	Pressure Pot - Suction feed Needle Setup 1.1 - 1.4 mm

DETAILED RECOMMENDATIONS ARE AVAILABLE ON REQUEST FROM E WOOD LIMITED

## DRYING AND CURE TIMES AT 20°C

	Touch Dry	2 hours
	Hard Dry	8 hours
Abrasion & Impact & Chemical Resistance		7 days
Full Ease of Graffiti Resistance		7 days

These times can be significantly reduced by increments of temperature

## HEALTH & SAFETY

1. COPON HYCOTE PU WB AG 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.

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

## PACKAGING AND STORAGE

Colour supplied in 4 litre packs. Clear supplied in 3 litre packs.

Use within 12 months 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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