COPON POLYURETHANE FINISH

RT98 Accreditation

PRODUCT DESCRIPTION

TWO COMPONENT SOLVENT BASED POLYURETHANE FINISH COATING

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

COPON POLYURETHANE FINISH, applied over such proven priming systems as COPON EA9, EA9 HIGH BUILD, EA9 HS or SURTOL ALUMINIUM, offers outstanding operational performance including abrasion, chemical and impact resistance and colour/gloss retention.

COPON POLYURETHANE FINISH, combined with COPON EA9 mutlicoat systems has been extensively tested to UK and French Standards for excellent limited fire hazard performance.

Standard Colour Availability	Can be manufactured in a range of gloss levels ranging from matt to high gloss and can be matched to a select range of BS381C, BS4800, NCS, Munsell and RAL colour standards subject to minimum batch manufacture. **Note:** For low gloss colours (35%) down to Semi-Matt and Matt colours, a mixing ratio of 5:1 by volume will apply, (Please refer to mixing section below).

GENERAL PROPERTIES AND APPROVALS

Adhesion	Excellent in combination with COPON SURTOL and COPON EA9 Primers.
Corrosion Resistance	Unaffected by salt water or aggressive industrial environments.
Chemical Resistance	Good resistance to oils, fats, aqueous solution and most industrial chemicals.
Temperature	Dry heat resistance up to 100°C.
Railtrack 98	Item Number 5.7.3

FIRE PERFORMANCE TEST DATA

COPON POLYURETHANE systems have been extensively tested on a wide variety of substrates to a range of British Standards. Full test details 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)
NFP 92-501 Epiradiateur Test	M1 Classification
NFX 10-702/NFX 70-100	
Smoke Density/Toxicity	F1 Classification
Note:	Toxicity values 'R' in accordance with BS6853 Annex B are also available from the E.Wood Technical Centre.

PHYSICAL CONSTANTS

Total Solids Content (Average) by Volume	50%
Specific Gravity (Average Mixed)	1.2
V.O.C. (As supplied)	370g/litre. Note: Thinning for spray application will increase thue 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 requirements.
Theoretical Coverage Rate	10.0 sq. metres per litre at 50 microns dft

SURFACE PREPARATION

Surfaces should be prepared and primed with the appropriate primer in accordance with the appropriate COPON SYSTEM RECOMMENDATION. The primed surface should be clean, dry and free from oil, grease or other contamination

Method of Mixing 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.

(continued overleaf)

MIXING

Number of Components	Supplied in two parts: Base component and Activator component.	
Mixing Ratio (by volume)	4 parts Base component 1 part Activator component }	}Full Gloss, Semi Gloss and all Clear Finishes
	5 parts Base component 1 part Activator component }	}Low Gloss, Semi Matt and Matt.
Pot (Usable) Life	Approximately 2 hours at 20°C	

APPLICATION

Conditions for Application

a) 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 2°C.

METHOD

COPON POLYURETHANE FINISH can be applied by brush, roller, conventional or air-less spray.

Typical spray settings are as follows:-

Airless Spray

32:1 pump ratio minimum
Tip Size 11-15 Thou orifice;
Tip pressure approx. 2,000 psi (145 Bar)

Conventional Spray

Pressure Pot
Needle Setup 1.1 - 1.8mm

COPON POLYURETHANE FINISH should be thinned for spray application, up to 30% COPON PU 71 THINNERS may be added by volume.

Good quality brushes and mohair rollers should be used for these methods of application

Note

When airless spray is being used, excessively high tip spraying pressures should be avoided. The minimum air pressure at the pump conducive with good atomisation should be used.

DRYING AND CURE TIMES AT 20°C

Touch Dry	- 1 hour
Hard Dry	- 4 hours
Overcoating	- min 1 hour
	- max 24 hours
Full Cure	- 7 days

HEALTH & SAFETY

1. In the wet state COPON POLYURETHANE FINISH is highly flammable.
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 Limited.

PACKAGING AND STORAGE

Supplied in 3½ litre packs.
Use within 2 years of purchase.
Store in original sealed containers at tempertures between 5°C and 30°C.

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

COPON HIGH PERFORMANCE PROTECTIVE COATINGS

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