COPON
HIGH PERFORMANCE PROTECTIVE COATINGS

RT98 Accreditation
M.O.D Approval

PRODUCT DATA
COPON EA9

PRODUCT DESCRIPTION
TWO COMPONENT SOLVENT BASED EPOXY COATING

COPON EA9 is designed for use as a high performance primer and finishing coat for many types of substrates i.e. mild steel, aluminium, corten and galvanised steel, concrete, phenolic GRP and other laminates.
COPON EA9 primer/finish systems have been extensively used for long term corrosion protection of both ferrous and non ferrous surfaces within the civil engineering and building industry, and as a lining system for water, chemical and fuel storage tanks.
COPON EA9 systems incorporate excellent limited fire hazard performance characteristics, thus making them eminently suitable for use throughout the transport industry and in other confined or underground public areas.

Standard Colour Availability	Primer is available in grey, white or red oxide matt. Finish can be manufactured in a range of gloss levels including Matt, Low Gloss (20-40%), Semi Gloss (40-70%) and High Gloss (70-90%) matched to a select range of BS 381C, BS4800, NCS, Munsell and RAL Colour. Standards subject to minimum batch manufacture.

GENERAL PROPERTIES AND APPROVALS

Abrasion	Good resistance to abrasion and mechanical damage.
Adhesion	Excellent on correctly prepared surfaces.
Surface Finish	Supplied in a wide range of gloss levels.
Chemical Resistance	The fully cured coating offers outstanding resistance to aqueous solutions and a wide range of industrial chemicals.
Temperature	Dry service temperature range up to 100°C.
Aviation Fuel	Approved by the M.O.D. and the UK Aviation Fuel Consortium for contact with aviation fuel in conjunction with COPON EA5.
Railtrack 98	Item Numbers - Primer 5.7.1 Finish 5.7.2

FIRE PERFORMANCE TEST DATA

COPON EA9 systems have been extensively 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 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	44%
Specific Gravity (Average Mixed)	1.22
V.O.C. (As supplied)	504g/litre. NOTE: Thinning for spray application will increase the applied V.O.C.
Film Thickness (Typical)	Wet 114 microns (unthinned). Dry 50 microns. When product is thinned appropriate adjustment to wet film thickness should be made. **Note:** The thickness to be applied should be agreed between the secifier and the manufacturer dependant on opertional performance requirements.
Theoretical Coverage Rate	8.8 sq. metres per litre at 50 microns dft.

SURFACE PREPARATION

	All surfaces should be thoroughly degreased
Iron & Steel (including stainless)	Abrasive blast clean to Sa21/2 BS7079: Part A1 1989/ISO 8501-1:1988 or equivalent - with a medium profile.

(continued overleaf)

Galvanised Steel	New galvanising only requires degreasing. Old galvanising must be abraded to remove corrosion deposits.
Aluminium	Either (1) Lightly Abrasive Blast or Abrade with 120 grade paper Or (2) Apply an approved pre-treatment such as the Walterisation or Alocrom conversion process. For specific recommendations consult the Copon Technical Centre.
Metal Flame Spray	Surfaces only require degreasing.
Polyester/Phenolic GRP	Abrade with 120 grade abrasive paper.

MIXING

Number of Components	Supplied in two parts: Base component and Activator component.
Mixing Ratio (by volume)	9 parts Base component, 1 part Activator component.
Pot (Usable Life)	Approximately 8 hours at 20°C.
Method of Mixing	Stir the contents of the base component. Continue stirring and gradually add the total contents of the activator container. Continue stirring until a homogeneous mix is obtained.

APPLICATION

Conditions for Application	a) Do not apply when the Relative Humidity exceeds 90% or when the surface to be coated is less than 3°C above the dew point. b) Minimum temperature for application is 7°C. c) Primed surfaces should be clean, dry and free from oil and grease.
METHOD	COPON EA9 can be applied by conventional, air assisted airless or airless spray. COPON EA9 can be applied to small areas by brush.

Typical spray settings are as follows:-

Airless Spray	30:1 pump ratio minimum Tip Size 13-15 Thou Tip pressure approx 2000 psi (145 Bar)
Pressure Pot	Needle Setup 1.1 - 1.8 mm COPON EA9 will require thinning for conventional spray application and may require thinning for airless spray application. Up to 30% COPON SA65 THINNERS may be added by volume. Clean all equipment immediately after use with COPON SA65 THINNERS.
Note	When airless spray is being used, excessively high tip spraying pressures should be avoided, the minimum pressure at the pump conducive with good atomisation should be used.

DRYING & CURE TIMES AT 20°C

Touch Dry (BS 3900 Part C2)	- 2 hours
Hard Dry (BS 3900 Part C3)	- 4 hours (Primer) - 6 hours (Semi-Gloss Finish)
Dry for Packing	- 48 hours
Overcoating	- minimum 4 hours - maximum 3 months
Full Cure	- 7 days

All above times are at a substrate temperature of 20°C.

HEALTH & SAFETY

1. COPON EA9 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 Ltd.

PACKAGING AND STORAGE

Supplied in 5 litre packs

Use within 24 months of purchase. Store in original sealed containers at temperatures between 5°C and 30°C.

Copon System Recommendations take presedence over individual Copon product data sheets and are available on request.

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