

COPONHIGH PERFORMANCE
PROTECTIVE COATINGS**M.O.D. Approval****PRODUCT DESCRIPTION****TWO COMPONENT SOLVENT BASED HIGH BUILD EPOXY COATING**

COPON EA5 has been developed as a high performance higher build chemical resistant protective coating. COPON EA5 has been formulated as a multicoat finish coating system applied over a suitable high performance primer, offering proven protection in immersion conditions against a wide range of petroleum products and related industrial materials. COPON EA5 has been extensively applied, as a fully tested and approved, lining system for aviation fuel tanks and vessels.

Standard Colour Availability Light Grey and Off White.

GENERAL PROPERTIES AND APPROVALS

Abrasion	Good resistance to abrasion and mechanical damage.
Adhesion	Excellent adhesion to surfaces primed with COPON EA9.
Chemical Resistance	Good resistance to a wide range of industrial chemicals and solvents.
Temperature	Suitable for use up to 100°C under dry service conditions.
Aviation Fuel	Approved by the M.O.D. and all major Petrochemical Companies for contact and immersion in aviation fuel.

PHYSICAL CONSTANTS

Total Solids Content (Average) by Volume	55%
Specific Gravity (Average Mixed)	1.25
V.O.C. (As Supplied)	431 g/litre. NOTE: Thinning for spray application will increase the applied V.O.C.
Film Thickness (Typical)	Wet 225 microns Dry 125 microns When product is thinned appropriate adjustment to wet film thickness should be made.
Note:	The thickness to be applied should be agreed with the specifier and the manufacturer dependant on operational performance requirements.
Theoretical Coverage Rate	4.4 sq. metres per litre at 125 microns dft

SURFACE PREPARATION

METHOD	All surfaces should be thoroughly cleaned and free of grease, oil and other contaminants. Steel should be abrasive blast cleaned to SA21/2 BS 7079 Part 1 1989/ISO 8501-1:1988 with a medium profile of 35 microns average. Within the appropriate time a coat of COPON EA9 Primer red Oxide should be applied to the specified film thickness. Before overcoating with COPON EA5, the primed surface should be clean, dry and free of any subsequent contamination. If the COPON EA9 Primer has been applied more than two months previously, advice should be sought from the E. Wood Technical Centre prior to any overcoating.
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MIXING

Number of Components	Supplied in two parts: Base component and Activator component.
Mixing Ratio (by volume)	5 parts Base component 1 part Activator component
Pot (Usable) Life	Approximately 12 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 component, continue stirring until a homogeneous mix is obtained.

(continued overleaf)

APPLICATION

Conditions for Application

- 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.
- Minimum temperature for application is 7°C.

METHOD

COPON EA5 can be applied by brush, roller, conventional or airless spray.

Typical spray settings are as follows:

Airless Spray

30:1 pump ratio minimum
Tip Size 13 - 15 Thou orifice;
Tip Pressure approx 2000 psi (145 Bar)

Conventional Spray

Pressure Pot
Needle Setup 1.4 - 1.8mm

COPON EA5 does not normally require thinning for airless spray application, where thinning is required up to a 10% COPON SA65 THINNERS may be added by volume. Good quality brushes and mohair rollers should be used for these methods of application.

Clean all equipment immediately after use with COPON SA65 THINNERS.

Note

When airless spray is being used, excessively high tip pressure should be avoided. The minimum pressure at the pump conducive with good atomisation should be used. The normal specification for aviation fuel tanks comprises:-
1 coat COPON EA9 at 25 microns.
2 coats COPON EA5 at 125 microns per coat.

DRYING AND CURE TIMES AT 20°C

Touch Dry	4 hours
Hard Dry	16 hours
Overcoating	min 16 hours max 4 days
Full Cure	7 days

HEALTH & SAFETY

- In the wet state COPON EA5 is highly flammable.
- Adequate ventilation must be provided during use
- 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 2 years of purchase. Store in original sealed containers at temperatures between 5°C and 30°C.

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



E WOOD LTD
STANDARD WAY
NORTHALLERTON
NORTH YORKS
DL6 2XA

TEL 01609 780170
FAX 01609 780438/777905(General)
FAX 01609 788718 (Technical)
E-MAIL copon@ewood.co.uk
URL: <http://www.copon.co.uk>