

PRODUCT DESCRIPTION

TWO COMPONENT SOLVENT BASED EPOXY COATING

COPON EA3 has been developed as a high performance corrosion resistant primer and also a finish coat in certain instances. COPON EA3 has been formulated as a high Flash version of COPON EA9 renowned for over 40 years worldwide as a long term maintenance free multicoat system affording outstanding corrosion protection and coating durability over a wide variety of metallic and other substrates. As such, COPON EA3 can be applied by either brush, roller or spray. COPON EA3 primer or finish, once fully cured, is identical chemically to its twin (COPON EA9). Accordingly, COPON EA3 incorporates all the same performance characteristics, namely proven long term corrosion protection, outstanding adhesion, chemical and impact resistance and extensive limited fire hazard performance.

Standard Colour Availability Primer (MATT) - Grey and Off White
Finish (SEMI-GLOSS) - Formulated to order when possible.

GENERAL PROPERTIES

Abrasion Good resistance to abrasion and mechanical damage.
Adhesion Excellent on correctly prepared surfaces.
Chemical Resistance 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 EA5.

FIRE PERFORMANCE TEST DATA

(Tested as COPON EA9)

COPON EA3 systems have been extensively tested on wide variety of substrates to a range of British and other International 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)
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) 450g/litre. NOTE: Thinning for spray application will increase the applied V.O.C.
Film Thickness (Typical) Wet 114 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 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.
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 180 grade paper
Or (2) Apply an approved pre-treatment such as the Walterisation of ICI Alocram dipping systems.
Metal Flame Spray Surfaces only require degreasing.
Polyester/Phenolic GRP Abrade with 240 grade abrasive paper.

MIXING

Number of Components	Supplied in two parts: Base component and Activator component.
Mixing Ratio (by volume)	3 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

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.

METHOD COPON EA3 can be applied by brush, roller, conventional or airless spray.

Typical spray settings are :

Airless Spray 32:1 pump ratio minimum
Tip Size 13-15 Thou
Input air pressure 60 psi

Conventional Spray Pressure Pot
Needle Setup 1.4 - 1.8 mm

COPON EA3 does not normally require thinning for airless spray application. Where thinning is necessary due to climatic conditions then up to 10% COPON 1075 THINNERS may be added by volume. When used as a primer for concrete up to 20% COPON 1075 THINNERS will be required to aid penetration of the surface. Good quality brushes and mohair rollers should be used for these methods of application. Clean all equipment immediately after use with COPON 1075 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 AND CURE TIMES AT 20°C

Touch Dry	2 hours
Hard Dry	16 hours
Overcoating	min 4 hours max 3 months
Full Cure	7 days

HEALTH & SAFETY

1. In the wet state COPON EA3 is 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 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.



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