

## PRODUCT DESCRIPTION

### TWO COMPONENT SOLVENT BASED HIGH BUILD EPOXY COATING

COPON EA9 HIGH BUILD belongs to the long established family of COPON EA9 high performance multicoat primer/finish coating systems specified and used worldwide to deliver outstanding coating protection to a wide variety of metallic and other substrate materials.

COPON EA9 HIGH BUILD has been specifically developed to achieve long term corrosion protection of mild steel by serving as a high build primer and/or a high build intermediate coat. It can also be used as a high build finish coat when the selection of the finish colour (ONLY IN MATT FINISH) is not of primary importance.

With excellent minimum fire hazard performance, COPON EA9 HIGH BUILD is ideally suited for protecting structural steel and related plant and equipment operating underground or in confined locations where public safety is paramount.

**Standard Colour Availability** Available as standard: Mid Grey and Off White. Other colours may be produced on request.

## GENERAL PROPERTIES

<b>Abrasion</b>	Good resistance to abrasion and mechanical damage.
<b>Adhesion</b>	Excellent on correctly prepared surfaces.
<b>Chemical Resistance</b>	The fully cured coating offers outstanding resistance to aqueous solutions and a wide range of industrial chemicals..
<b>Temperature</b>	Dry service temperature range up to 100°C.

## 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 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

<b>Total Solids Content (Average) by Volume</b>	55%
<b>Specific Gravity (Average Mixed)</b>	1.25
<b>V.O.C. (As supplied)</b>	402g/litre. NOTE: Thinning for spray application will increase the applied V.O.C.
<b>Film Thickness (Typical)</b>	Wet 210 microns Dry 115 microns When product is thinned appropriate adjustment to wet film thickness should be made.
<b>Note:</b>	The thickness to be applied should be agreed between the specifier and the manufacturer dependent on operational requirements.
<b>Theoretical coverage rate</b>	4.8 sq. metres per litre

## SURFACE PREPARATION

<b>METHOD</b>	<ol style="list-style-type: none"> <li>a) Mild Steel or Corten Steel - steel surfaces should be degreased then abrasive blast cleaned to a minimum Swedish Standard Sa 21/2 SIS 05900 1967 or other equivalent international standard.</li> <li>b) Galvanised Steel - surfaces should be degreased using a two stage degreasing process.</li> <li>c) Aluminium - surfaces should be treated with a phosphate pre-treatment. Where phosphate treatment is not possible, the surface should be abraded and degreased.</li> </ol>
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## MIXING

<b>Number of Components</b>	Supplied in two parts: Base component and Activator component.
<b>Mixing Ratio</b>	As supplied.
<b>Pot (Usable) Life</b>	Approximately 5 hours 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 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.
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<b>METHOD</b>	COPON EA9 HIGH BUILD can be applied by brush, roller, conventional or airless spray, with spray application being the preferred method.
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### Typical spray settings are as follows:-

<b>Airless Spray</b>	Minimum 45:1 pump ratio Tip Size 13-17 Thou Tip pressure 3000-3500 psi
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<b>Conventional Spray</b>	Pressure Pot Needle Setup 1.4-1.8mm
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<b>For Airless Spray</b> <b>For Pressure Pot</b>	COPON EA9 HIGH BUILD requires thinning up to 10% with COPON SA65 THINNERS. Up to 30% COPON SA65 THINNERS will be required. Good quality brushes and mohair rollers should be used for these methods of application. Clean all equipment after use with COPON SA65 THINNERS.
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<b>Note</b>	When airless spray is being used, excessively high tip spraying pressures should be avoided, the minimum air pressure at the pump conducive to good atomisation should be used.
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## DRYING AND CURE TIMES AT 20°C

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

## HEALTH & SAFETY

1. In the wet state COPON EA9 HIGH BUILD 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

Supplied in 4.1 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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