



**RT98 Accreditation
Approved by Major
Motor Manufacturers**

PRODUCT DATA
**COPON
HYCOTE
EA9 WB**

PRODUCT DESCRIPTION

TWO COMPONENT WATER-BORNE EPOXY COATING

COPON HYCOTE EA9WB is a leading member of the expanding range of Copon Hycote Water-Borne Coatings supplied in both primer and finish versions. As a primer, it offers proven long term corrosion protection of ferrous and non ferrous metallic substrates. As the basis of a multicoat system, the primer should be overcoated with either COPON HYCOTE EA9 WB Finish Colour or by one of a number of Copon Hycote Water-borne and Solvent Free coating systems. COPON HYCOTE EA9WB Systems have been extensively tested for limited fire hazard performance to various International Standards. Accordingly it is widely used throughout the Rail Industry and increasingly in Original Equipment Manufacture involving other forms of passenger transportation, heavy engineering fabrication and civil engineering work especially for underground and confined locations.

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.
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.
Railtrack 98	Item number 5.7.1.
Rover	Tested to Rover RES 30 CT 117/8 - 480 hours.

FIRE PERFORMANCE TEST DATA

COPON HYCOTE EA9 WB systems have been extensively tested on a wide variety of substances to a range of British and other International Standards. Full test details and results are available on request from E Wood Technical Centre. Tests carried out include:

BS 476 - Part 7	Class 1 Surface Spread of Flame
BS 476 - Part 6	Class 0 in accordance with UK Building Regulations.
BS 6853	Annex D Section 8.4 (Panel Test)
NFP 92-501 Epiradiateur Test	M1 Classification
NFX10-702/NXF 70-100	Smoke Density/Toxity F1 Classification
Note:	Toxity values 'R' in accordance with BS6953 Annex B are also available from E Wood Technical Centre.

PHYSICAL CONSTANTS

Total Solids Content (Average) by volume V.O.C (As Supplied)	45% Primer Base and Activator Combined 50gm/litre Finish Base and activator Combined 61gm/litre Note: Thinning for spray application will reduce the applied V.O.C.
Specific Gravity (Average Mixed)	1.27
Film Thickness (Typical) Note:	Wet 135 microns. Dry 60 microns The thickness to be applied should be agreed between the specifier and the manufacturer dependant on operational performance requirements.
Theoretical Coverage Rate	7.5 sq metres per litre at 60 microns dft.

SURFACE PREPARATION

METHOD	All surfaces should be thoroughly degreased.
Steel	Abrasive blast clean to Sa2½ BS 7079 Part A1 1989/ISO 8501-1: 1988 - with a medium profile - 35 microns average
Aluminium	Either (1) Mechanically abrade with 120 grade paper; or (2) Apply an approved pre-treatment such as the Alocrom 1200 conversion process. For specific recommendations consult the Copon Technical Centre at E Wood Ltd.
Galvanised Steel	New galvanising only requires degreasing. Weathered galvanising should be abraded to remove corrosion deposits.

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	Primer: Approximately 2 hours @ 20°C Finish: Approximately 4 hours @ 20°C
Method of Mixing	Stir the contents of the base component. Continue stirring whilst gradually adding the total contents of the activator container. Continue stirring until a homogeneous mix is obtained.
Note	When mixing complete units of product, the use of a slow or variable speed mechanical mixer is beneficial in terms of ease and complete mixing.

APPLICATION

Conditions for Application	a) Do not apply when relative humidity exceeds 85% or when the surface to be coated is less than 3°C above the dew point. b) For optimum results a minimum material and substrate temperature of 15°C is necessary. c) Primed surfaces should be clean, dry and free from oil and grease.
-----------------------------------	---

METHOD	COPON HYCOTE EA9WB can be applied by most types of spray equipment. Also by brush or roller for limited areas. COPON HYCOTE EA9WB is supplied ready for use by airless or air assisted spray. Small additions of clean water (up to 5% by volume) may be required to cater for variations in application conditions. COPON HYCOTE EA9WB will require thinning for application by conventional spray, where the minimum quantity of clean water required for optimum atomisation should be used. Typically this is up to 10% volume. Detailed guidance on the spraying procedures for COPON HYCOTE EA9WB are available from the Copon Technical Centre. Ideally dedicated equipment should be used for applying water borne coating. If this is not possible, equipment should be first flushed with a solvent related to the previous solvent based coating. This should then be followed by a second flushing using COPON 3000 CLEANING SOLVENT water miscible solvent then by rinsing through with clean water. After use, wash out with clean water followed by flushing with COPON 3000 CLEANING SOLVENT.
Typical Spray Settings are:	Airless Spray Tip Size 13 - 17 thou Conventional Spray Pressure Pot. Needle Setup 1.1 - 1.8 mm

DRYING & CURE TIMES AT 20°C

Touch Dry (BS 3900 Part C2) -	1 hour
Hard Dry (BS 3900 Part C3) -	2 hours (Primer) 4 hours (Semi-Gloss Finish)
Dry for packing -	16-36 hours (dependant on colour gloss and total dft)
Overcoating minimum -	2 hours
Overcoating maximum -	3 months
Full cure -	7 days

Note: Touch Dry, Hard Dry and Packing times are for a constant substrate temperatures of 20°C.

HEALTH & SAFETY

1. COPON HYCOTE EA9WB is a water based system and does not present any health hazard during normal industrial use.
 2. Skin contact should be avoided. Any affected areas should be washed with soap and water.
 3. Where eye contact occurs, the eye should be washed immediately with copious clean water.
- NOTE:** Full Health & Safety Data is available from E Wood Ltd.

PACKAGING AND STORAGE

Supplied in 5 litre packs or Base and Activator supplied individually in 20 litre Containers (9 Base and 1 Activator).
Use within 24 months of purchase. Store in original sealed containers at temperatures between 5°C and 30°C. Protect from frost during storage and use.

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>