



## PRODUCT DESCRIPTION

### WATER-BORNE EPOXY COATING

COPON HYCOTE HYDRALAC has been specifically developed for the Automotive and related industrial OEM markets for metallic substrates. Formulated without PVC or PVDC free monomer, this single coat application offers exceptional long term corrosion protection and finish properties, with a low VOC content.

### GENERAL PROPERTIES

<b>Colour Availability</b>	Manufactured to an agreed colour specification
<b>Gloss level</b>	Gloss levels up to 40%
<b>Adhesion</b>	Excellent to correctly prepared substrates
<b>Corrosion Resistance</b>	Excellent even under aggressive immersion conditions
<b>Chemical Resistance</b>	Unaffected by common automotive fluids

### PHYSICAL CONSTANTS

<b>Total Solids Content</b>	
<b>(Average) Volume</b>	47%
<b>Specific Gravity</b>	1.23
<b>(Average Mixed)</b>	
<b>V.O.C (As supplied)</b>	90gm/ltr
<b>Film Thickness (Typical)</b>	Wet 165 microns Dry 75 microns

Note: The dry film thickness (d.f.t) of the coating to be applied should be agreed between the client and the manufacturer dependent on operational performance requirements and surface preparation.

**Theoretical Coverage Rate** 6m<sup>2</sup> per litre at 75 microns d.f.t

### APPLICATION

COPON HYCOTE HYDRALAC 4701 is designed for application using a single or plural airless spray system.

**Typical airless spray settings are:-** Minimum 45:1 pump ratio.  
Tip Size 19-23 Thou orifice  
Tip Pressure - 3000psi

### MIXING

<b>Number of Components</b>	Supplied in two parts: Base component and Activator component
<b>Mixing Ratio</b>	5 parts Base component.
<b>(by volume)</b>	1 part Activator component.
<b>Pot (Usable) Life</b>	Approximately 4 hours at 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.

*(continued overleaf)*

## DRYING AND CURE TIMES AT 20°C

Touch Dry - 1 hour  
Hard Dry - 4 hours  
Overcoating - min 2 hours  
max 7 days

**These times can be improved with elevated temperatures and increased air flow**

---

## PERFORMANCE DATA

Abrasion Resistance	ASTM D4060	Immersion Test	Neat Glycol
Direct Pull Adhesion	ASTM D4541	Immersion Test	Hot Oil
Flexibility	ASTM D522	Immersion Test	Petrol
Pencil Hardness	ASTM D3363	Immersion Test	Water
Humidity	BS 3900 F2	Immersion Test	Diesel
Scratch Resistance	BS3900 E2	Immersion Test	Battery Acid
Impact Resistance	BS2782 Part 3	Immersion Test	50/50 Glycol 95°C

---

## HEALTH & SAFETY

1. COPON HYCOTE HYDRALAC is a water based system and does not present any health hazard during use.
2. Undue contact with the skin should be avoided.

**NOTE:** Full Health & Safety Data is available from E Wood Ltd.

---

## PACKING AND STORAGE

Supplied in 5 litre packs, or the base and activator supplied separately in 20 Litre drums or 1000 litre IBC's (5 base and one activator)

Use within 12 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](mailto:copon@ewood.co.uk)  
URL: <http://www.copon.co.uk>