

**PRODUCT DESCRIPTION**

**TWO COMPONENT SOLVENT BASED EPOXY COATING**

COPON KS16W is designed for use as a protective coating for steel tanks and pipework containing hot water and hot aqueous solutions. It has been specified for use in desalination plants operating world wide.

COPON KS16W will withstand continuous immersion at temperatures up to 120°C and is an ideal coating for long term protection of condensate return return tanks and hot water tanks.

**Standard Colour Availability**      Manufactured in a Red Oxide and Grey colour.

**GENERAL PROPERTIES**

**Corrosion Resistance**      Excellent when applied to blast cleaned steel.  
**Adhesion**                      Excellent on blast cleaned steel.  
**Chemical Resistance**      Unaffected by aqueous solutions up to 120°C.  
**Temperature Resistance**      Dry Heat 150°C.  
     Aqueous Immersion 120°C.

**PHYSICAL CONSTANTS**

**Total Solids Content**      50%  
**(Average) by Volume**  
**Specific Gravity**              1.40  
**(Average Mixed)**  
**V.O.C. (As Supplied)**      593gm/litre **NOTE:** Thinning for spray application will increase the applied V.O.C.  
**Film Thickness (Typical)**      Wet 100 microns              Wet 150 microns  
     Dry 50 microns              Dry 75 microns  
**NOTE:** The thickness to be applied should be agreed between the specifier and the manufacturer dependant on operational performance requirements.  
**Theoretical Coverage Rate**      10 sq. metres per              6.67 sq. metres per litre  
     litre at 50 microns dft      at 75 microns dft

**SURFACE PREPARATION**

**METHOD**      Steel Surfaces should be abrasive blasted to a minimum Standard of Sa2½ - BS 7079: Part A1 1989. The blast cleaning process should produce a medium profile with an average profile of approximately 50 microns. The steel surface must be clean, dry, and free from oil, grease or other contamination. All oils etc. on the surface must be removed with **COPON SA65 THINNERS**.

**MIXING**

**Number of Components**      Supplied in two parts: Base component and Activator component.  
**Mixing Ratio (by volume)**      4 parts Base component.  
     1 part Activator component  
**Pot (Usable) Life**              Approximately 6 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

# APPLICATION

## Conditions for Application

- a) Do not apply when the relative humidity exceeds 90°C 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 KS16W can be applied by brush, roller, conventional or airless spray, with airless spray being the preferred method

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 - 1.8 mm  
COPON KS16W normally requires thinning for spray application, and approximately 10%.  
COPON SA65 THINNERS should be added depending on the equipment being used.  
Clean all equipment after use with COPON SA65 THINNER

**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.

COPON KS16W is normally applied as a 3/4 coat system. The thickness of each coat should be 50-75 microns giving a total dry film thickness of 200-250 microns. The final coat must be allowed to cure for a minimum of 7 days before being put into service.

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## DRYING AND CURE TIMES AT 20°C

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

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## HEALTH & SAFETY

1. In the wet state COPON KS16W 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 Ltd.

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## PACKAGING AND STORAGE

Supplied in 5 and 20 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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