



**COPON
KSIR88**

PRODUCT DESCRIPTION

TWO COMPONENT SOLVENT BASED HIGH SOLIDS EPOXY COATING

COPON KSIR88 is designed for use as a high performance lining for tanks and pipelines.
 COPON KSIR88 can be applied 'in situ' to gas and mixed product lines and offers excellent corrosion protection combined with good resistance to a wide range of liquids and gases including sour gas.
 COPON KSIR88 meets the requirements of BS6920 and is approved for contact with potable water.
 COPON KSIR88 can also be used for touch up work on other Copon lining materials.

Standard Colour Availability Manufactured only in an Off White, Light Grey and Water Industry Blue colour.

GENERAL PROPERTIES AND APPROVALS

Adhesion	Excellent to both grit blasted and manually prepared surfaces.
Abrasion	Good resistance to abrasion and mechanical damage.
Chemical Resistance	Unaffected by fuel oil, chemical products, aviation fuel and sour gas mixtures.
Corrosion Resistance	Excellent on correctly prepared surfaces.
Temperature Resistance	Suitable for use up to a 120°C dry heat.
Potable Water Contact	Water Regulations Advisory Scheme - Approved product.

PHYSICAL CONSTANTS

Total Solids Content (Average) by Volume	65%
Specific Gravity (Average Mixed)	1.3
V.O.C. (As Supplied)	300gm/litre
NOTE:	Thinning for spray application will increase the applied V.O.C.
Film Thickness (Typical)	Wet 200 microns Dry 125 microns
Note	When product is thinned appropriate adjustment to wet film thickness should be made. The thickness to be applied should be agreed between the specifier and the manufacturer dependant on operational performance requirements, thicknesses up to 300 microns dry can be applied in a single coat.
Theoretical Coverage Rate	5.2 sq metres per litre at 125 microns dft

SURFACE PREPARATION

- METHOD**
- a) Steel surfaces should ideally be abrasive blast cleaned to minimum standard Sa 2 1/2 BS 7079 Part A1 1989 or equivalent.
 - b) Where grit blasting cannot be carried out the steel surface should be thoroughly mechanically abraded with all oil and grease being removed.
 - c) Concrete surfaces should be cleaned, dry and free from loose dirt and laitence. Approved methods of preparation are, light abrasive blasting, acid etching, scarifying, high pressure water jetting etc. In most situations a recommended primer/sealer coat will be required.

MIXING

Number of Components	Supplied in two parts: Base component and Activator component.
Mixing Ratio (by volume)	3.5 parts Base component. 1 part Activator component
Pot (Usable) Life	4 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 Do not apply when relative humidity exceeds 90% or when the surface to be coated is less than 3°C above the dew point.

METHOD COPON KSIR88 can be applied by brush, roller, spray or the pipeline pig method. For new pipelines, airless spray application is the preferred method. On existing pipelines application can be carried out 'in situ' utilising the pipeline pig method.

Typical spray settings are:

Airless Spray 30: 1 pump ratio minimum
Tip Size 13-15 Thou orifice;
Tip pressure 2000 psi (145 Bar) minimum

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 KSIR88 may require thinning for spray application, where thinning is required up to 10% COPON SA65 THINNERS may be added by volume.

DRYING AND CURE TIMES AT 20°C

Touch Dry 1 hour
Hard Dry 8 hours
Overcoating 6 hours Min.
48 hours Max.

PERFORMANCE DATA

A.S.T.M. B 117 (Hot Salt Fog) No breakdown after 5000 hours exposure.
B.S. 3900: F2 Cyclic Humidity No breakdown after 5000 hours exposure.
Decompression Cycle 48 hours constant 130°C at 250 bar in an atmosphere of Methane/Carbon Dioxide. No coating breakdown.
Immersion in 20% Sulphuric Acid at 60°C No breakdown - 10 days exposure.
20% Potassium Hydroxide at 60°C 1000 hours exposure no breakdown.
Distilled water at 60°C no breakdown after 1000 hours exposure.
N.A.C.E. solu. (5% NaCL + 0.5% CH₃ COOH saturated with H₂S). No breakdown after 1000 hours exposure.

HEALTH & SAFETY

1. In the wet state COPON KSIR88 is highly inflammable.
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 4 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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