

PRODUCT DESCRIPTION

TWO COMPONENT WATER-BORNE CLEAR INTUMESCENT COATING

COPON LS4000 system has been developed as a highly effective clear intumescent coating offering extended fire protection to timber and other selected vulnerable substrates.

COPON LS4000, system has been tested to BS476 parts 7 and 6 to confirm reaction to fire performance namely Class 1 and Class 0.

COPON LS4000 must be overcoated with COPON LS4000CL clear finish.

Standard Colour Availability Clear gloss only.

GENERAL PROPERTIES

Abrasion Resistance Superior to conventional solvent based polyurethane alkyd varnishes.

Adhesion Excellent to correctly prepared surfaces

Clarity/Gloss Excellent clarity and very good gloss retention.

FIRE PERFORMANCE

BS 476 - Part 7 Class 1 - Nil Surface Spread of Flame.

BS 476 - Part 6 Class 0 - Designation in accordance with UK Building Regulations E.15.

NOTE The above results relate to a system of 100 microns dft of Copon LS4000 overcoated with 30 microns dft of Copon LS4000CL applied to parana pine. Test reports are available from E Wood Ltd.

PHYSICAL CONSTANTS

**Total Solids Content
(Average) by Volume** 68%

**Specific Gravity
(Average Mixed)** 1.3

V.O.C. (As Supplied) 46gm/litre. **Note:** Thinning for spray application will reduce the applied V.O.C.

Film Thickness (Typical) Wet 150 microns. Dry 100 microns

Note: 100 microns dft must be applied to achieve the quoted fire resistance.

Theoretical Coverage Rate 6.8 m² per litre at 100 microns dft.

SURFACE PREPARATION

METHOD All surfaces should be clean, dry and free from grease, oil, wax and any other contamination.
Softwood surfaces should require no further surface preparation. However hardwoods should be lightly abraded. All debris and dust to be removed prior to coating.

MIXING

Number of Components Supplied in two parts. Base component and Activator component.

Mixing Ratio 4 parts Base component.

(by volume) 3 parts Activator component.

Pot (Usable) Life 1½-2 hours at 20°C.

Method of Mixing The base component should be stirred and whilst continuing stirring the activator component should be slowly added.

APPLICATION

- Conditions for Application**
- a) Do not apply when the Relative Humidity exceeds 80% or when the surface to be coated is less than 3°C above the dew point.
 - b) Minimum temperature for application is 7°C.

NOTE: Conditions for application also apply to the drying of Copon LS4000. If conditions cannot be maintained the product must be overcoated as soon as it is touch dry.

METHOD COPON LS4000 can be applied by brush, roller or airless spray.

Typical Airless Spray Settings are:

- Tip size 15-17 thou
- Tip pressure 900-2000 psi
- For spray application, Copon LS4000 should be thinned 10-15% by volume with water.
- All equipment must be cleaned immediately after use with clean water.

DRYING AND CURE TIMES AT 20°C

Overcoating Time	4-6 hours
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APPLICATION RECOMMENDATIONS

In all cases COPON LS4000 should be overcoated with COPON LS4000 CL. COPON LS4000CL is available in three different gloss levels: Matt, Satin and Gloss.

HEALTH AND SAFETY

1. COPON LS 4000 is a Water Based coating and does not present any health hazard during normal industrial use.
2. Adequate ventilation must be provided in confined areas, for spray application appropriate masks should be worn.
3. Contact with the skin should be avoided.

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

PACKAGING AND STORAGE

Supplied in 4½ litre packs.

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.



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