



PRODUCT DESCRIPTION

TWO COMPONENT SOLVENT FREE EPOXY COATING

COPON HYCOTE 151E is designed to provide long term protection of structures situated below water or in the tidal zone. COPON HYCOTE 151E can be successfully applied to steel and concrete above and below water without the need for a primer. COPON HYCOTE 151E can be applied above water, through the splash zone and below water. In a single application it offers protection to a wide range of concrete and steel structures. i.e. Bridges, Buoys, Jetties. Oil Installations, Piers, Pipelines, Ships and other Marine vessels. When applied to concrete COPON HYCOTE 151E prevents ingress of chloride ions, carbon dioxide and other corrosive chemicals, thus inhibiting reinforcement corrosion.

Standard Colour Availability Manufactured in Light Grey and Red.

GENERAL PROPERTIES AND APPROVALS

Abrasion	Excellent resistance to abrasion and mechanical damage.
Adhesion	Excellent on correctly prepared surfaces.
Chemical Resistance	Can be used against a wide range of chemicals and provides excellent resistance to sea water immersion.
Cleanability	Is easily cleaned of marine growth by water jetting.

PHYSICAL CONSTANTS

Total Solids Content (Average) by Volume	100%
Specific Gravity (Average Mixed)	1.36
V.O.C.	NIL
Film Thickness (Typical)	Wet 250 microns Dry 250 microns Note: The thickness to be applied should be agreed between the specifier and the manufacturer dependent on operational requirements.
Theoretical Coverage Rate	4 sq. metres per litre at 250 microns d.f.t.

SURFACE PREPARATION

METHOD	a)	Steel Surfaces - surfaces to be coated should be clean and free of oils and bacteria or algae growth. Optimum performance is obtained on application to surfaces prepared to minimum Sa 2 ^{1/2} in accordance with BS 7079 : Part A1 1989 or equivalent. Underwater or splash zone should be dry or hydroblasted.
	b)	Concrete - remove all dirt, oils, grease etc. and any loose material. All laitence should be removed by light abrasive blasting. Holes in concrete should be filled with an approved filler.

MIXING

Number of Components	Supplied in two parts: Base component and Activator component.
Mixing Ratio (by volume)	2 parts Base component. 1 part Activator component.
Pot (Usable) Life	Approximately 45 mins 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)	Ideally when applying COPON HYCOTE 151E under water, water temperatures should be a minimum of 10°C for optimum application properties, however application can be carried out at temperatures down to 5°C
	b)	Unaffected by relative humidity, or surface moisture.
METHOD		COPON HYCOTE 151E can be applied by 2:1 ratio plural feed hot airless spray equipment, brush or roller.

(continued overleaf)

For application by spray the base component and activator should be set to a temperature that produces an even pattern with good atomisation, this will vary depending upon pump ratio of equipment, length and diameter of hoses etc, but would normally be 30° - 40°C at the tip.

For application onto wet surfaces or below water the coating should be applied by brush. All equipment to be cleaned with COPON SA65 THINNER immediately after use.

Note When airless spray is being used, excessively high tip spraying pressures should be avoided. The minimum pressure at the pump conducive and good atomisation should be used.

DRYING AND CURE TIMES AT 20°C

Touch Dry	8 hrs
Hard Dry	16 hrs
Overcoating	8 hrs
Maximum Overcoating	24 hrs
Full Cure	7 days

HEALTH & SAFETY

1. Adequate ventilation should be provided during use.
2. Avoid contact with the skin by using gloves, barrier creams and face mask.
3. If the product comes into contact with the skin, wash immediately with lukewarm water and soap: if the eyes are affected flush with water or diluted boric acid solution and seek medical attention at once.

PACKAGING AND STORAGE

Supplied in 5 litre packs.

Use within 12 months 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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