

PRODUCT DESCRIPTION

TWO COMPONENT SOLVENT FREE EPOXY COATING

COPON HYCOTE 175 is a high performance chemical and abrasion resistant lining suitable for plural feed hot spray or brush application.

COPON HYCOTE 175 is based on a specially selected resin/activator blend, which has been fully tested under laboratory and site conditions to a wide range of acidic and chemical conditions.

Other coatings such as epoxies and urethanes tested under the same conditions showed premature failure.

COPON HYCOTE 175 is ideally suited for applications which call for a high degree of chemical and abrasion resistance.

NOTE: For resistance to organic solvents please refer to COPON HYCOTE 175SR.

Resistance to the following at 20°C :

98% Sulphuric Acid, 36% Hydrochloric Acid, 75% Phosphoric Acid, 30% Nitric Acid, 25% Ammonia, Sodium Hydroxide (all concentration).

Applications include the lining of concrete or steel tanks, bund walls, culverts, interior of pipes, floors which come into contact with any of the above chemicals, flue gas desulphurisation plants.

Standard Colour Availability Manufactured only in Dark Grey and Light Grey.

GENERAL PROPERTIES

Abrasion	Excellent resistance to abrasion and mechanical damage
Adhesion	Excellent on correctly prepared surfaces.
Erosion	Excellent erosion resistance, particularly recommended for immersion in aqueous slurries.
Chemical Resistance	Recommended as a protective lining against a wide range of chemical immersion conditions. (Advice can be provided by E Wood Limited on resistance to any particular chemical).
Temperature	Up to 120°C chemical immersion, depending upon chemical involved.

PHYSICAL CONSTANTS

Total Solids Content (Average) by Volume	100%
Specific Gravity (Average mixed)	1.15
V.O.C.	NIL
Film Thickness (Typical)	Wet 300 microns 500 microns (spray only) Dry 300 microns 500 microns (spray only)
Theoretical Coverage Rate	Note: The thickness to be applied should be agreed between the specifier and the manufacturer dependent on operational requirements. 3.3 sq. metres per litre at 300 microns dft. 2.0 sq. metres per litre at 500 microns dft.

SURFACE PREPARATION

METHOD

- Steel Surfaces - all steel surfaces to be coated should be abrasive blast cleaned to a minimum SA2½ BS 7079 Part A1 1989 or equivalent with a blast profile corresponding to 'Medium' BS 7079 Part C3.
- Concrete Surfaces - all concrete surfaces to be coated should be prepared by either lightly abrasive blast cleaning using wet abrasive or dry techniques or alternatively high pressure water jetting. Care should be taken not to expose the aggregate. All dust and abrasive material shall be removed from the surface prior to coating. Surfaces should then be sealed with COPON HYCOTE 630.

MIXING

Number of Components
Mixing Ratio (by volume)
Pot (useable) Life
Method of Mixing

Supplied in two parts: Base component and Activator component.
2 parts Base component. 1 Part Activator component.
Approximately 30 mins at 20°C.
a) Dual feed hot airless spray mixed automatically at mixer head.
b) 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 attained.

APPLICATION

Conditions for Application

Do not apply when the Relative Humidity exceeds 85% or when the surface to be coated is less than 3°C above the dew point.

METHOD

a) Plural Feed Hot Airless Spray:

Both the Base and Activator component should be heated so that the temperature at the tip is between 50°C and 60°C dependant on the method of application and equipment being used. Tip size and fan width will vary dependant on the thickness to be deposited and the geometry of the article to be coated.

Maximum circulation temperature - Base 70°C,
Activator 50°C

Tip Pressure - 3500 psi minimum

Tip size 17-31 thou

Heated line bundle is advised

b) Brush:

Good quality brushes should be used. For brush application it is advisable to maintain a substrate temperature of 15°C minimum, with the ideal temperature being 20-25°C. Completely clean equipment immediately after use with COPON SA65 THINNERS.

DRYING AND CURE TIMES AT 20°C

Touch Dry 4^{1/2} hours

Minimum Overcoating 4^{1/2} hours

Maximum Overcoating 24 hours

Mechanical Cure 24 hours

Full Chemical Cure 7 days

For optimum chemical resistance the applied system must be cured at a minimum temperature of 20°C for 7 days.

HEALTH & SAFETY

1. Adequate ventilation must be provided during use.
2. Undue contact with the skin should be avoided.

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

PACKAGING AND STORAGE

20 litre base and activator for dual feed hot airless spray application.

2 kg composite packs for brush application.

Use within 5 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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