



Authorised for use under
Regulation 31(4)(a) for Factory
and On Site Applications



PRODUCT DATA
**COPON
HYCOTE
165PW**

PRODUCT DESCRIPTION

TWO COMPONENT SOLVENT FREE URETHANE COATING

COPON HYCOTE 165PW has been developed as a high build solvent free urethane coating system suitable for the long term maintenance free protection of cementitious and metallic substrates.

COPON HYCOTE 165PW is specifically designed for plural feed hot airless spray application for large applications and by brush or roller to small areas. As such it permits single coat applications of between 0.5 mm and 2 mm d.f.t.

COPON HYCOTE 165PW is suitable for immersion conditions, specifically for potable water but also in chemically polluted marine or underground environments.

COPON HYCOTE 165PW is formulated to combine outstanding abrasion and impact resistance with a significant degree of flexibility. Accordingly, this coating is specified and used extensively for diverse applications including the internal and external protection of pipes, tanks and vessels and related building and engineering structures and fabrications.

Standard Colour Availability Grey

GENERAL PROPERTIES

Abrasion	Excellent resistance to abrasion and mechanical damage.
Tensile Strength	2800 psi
Elongation	35%
Potable Water Contact	Water Regulations Advisory Scheme Approved Product for contact with potable water. Authorised for use under Regulation 31(4)(a) of the Water Supply (Water Quality) Regulations 2000. To comply with the condition of approval under Regulation 31(4)(a) COPON HYCOTE 165PW must be applied in accordance with the appropriate approved System Recommendation available from Copon Technical Centre on request.

PHYSICAL CONSTANTS

Total Solids Content	
(Average) by Volume	100%
Specific Gravity	1.2
(Average Mixed)	
V.O.C.	Nil
Film Thickness (Typical)	1 mm Wet/Dry
Note:	The thickness to be applied should be agreed between the specifier and the manufacturer dependant on operational performance requirements.
Theoretical Coverage Rate	1 sq metre per litre at 1 mm

SURFACE PREPARATION

Steel	Surfaces should be abrasive blasted to Sa2½ BS7079 Part A1 1959 or equivalent with a surface profile of 75 microns. All dust and abrasive material should be removed from the surface prior to coating.
Concrete	Surfaces should be suitably prepared, clean and dry. 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 parts Base component. 1 part Activator component.
Pot (Usable) Life	20 minutes at 20°C
Method of Mixing	Plural feed hot airless spray mixed automatically at spray head. Material temperature 35°C-40°C. Brush application: Stir the Base component and whilst stirring add the Activator component and continue mixing to produce a streak free homogeneous mix.

(continued overleaf)

APPLICATION

Conditions for Application	Do not apply when the Relative Humidity exceeds 90% or when the surface to be coated is less than 3°C above the dew point.
METHOD	For large applications COPON HYCOTE 165PW should be applied by plural feed airless spray equipment. The Base component should be heated such that the temperature at the spray tip is 35°C-40°C.
Typical Plural Feed Airless Spray Settings	Base Temperature 50°C Activator Temperature 25°C Tip Pressure approx 3000psi Tip Size 19-25 Thou For brush application of COPON HYCOTE 165PW good quality brushes and rollers should be used. The product should be liberally applied to the specified thickness. All equipment must be cleaned immediately after use using COPON PU 71 THINNERS

DRYING AND CURE TIMES AT 20°C

Touch Dry	4 hours
Hard Dry	8 hours
Full Cure	7 days

Overcoating	When applied via plural feed airless spray, COPON HYCOTE 165PW should be applied as a single, high build coat. If a second coat is required, or a multicoat hand application is to be carried out, overcoating must be carried out within 24 hours of application of the preceding coat. If overcoating time is extended, thorough mechanical abrasion or flash blasting of the preceding coat must be carried out prior to overcoating. The minimum overcoating time will be determined by the chosen method of application and prevailing temperatures. Overcoating can be carried out as soon as the coating has cured sufficiently to receive a subsequent application by the selected method.
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HEALTH & SAFETY

1. Adequate ventilation must be provided during use.
2. Suitable vapour masks should be worn for spray application.
3. Undue skin contact should be avoided.

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

PACKAGING AND STORAGE

Supplied as Base and Activator separately in 18 litre units for plural feed airless spray plus, 2 litre and 1 litre composite units for hand application.

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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