

# CONATHANE® CE-1164

Polyurethane

Cytec Industries Inc.

## Message:

CONATHANE CE-1164 is a single-component, air drying, room temperature curing, polyurethane conformal coating which meets the requirements of MIL-I-46058C for Type UR coatings and appears on the Qualified Products List (QPL).

CONATHANE CE-1164 is a solvent-based coating designed for thin-film applications on electronic components and printed circuitry. It was developed specifically to provide the ultimate in humidity resistance and hydrolytic stability while retaining excellent flexibility to prevent fracturing of fragile components during thermal cycling.

Cured films maintain excellent adhesion to phenolic and epoxy-glass laminates even in adverse environmental conditions. A tracer dye has been incorporated to aid inspection under ultraviolet light.

General Information		
Features	Good Chemical Resistance Good Flexibility Good Thermal Shock Resistance Halogen Free Humidity Resistant Hydrolytically Stable Solvent Resistant	
Uses	Coating Applications Electrical/Electronic Applications Film	
Agency Ratings	MIL I-46058C	
Appearance	Amber Clear Amber	
Forms	Liquid	
Physical	Nominal Value	Unit
Specific Gravity	1.05	g/cm <sup>3</sup>
Solids Content	50	%
Flash Point - Closed Cup	13	°C
Fungal Resistance	Non-nutrient	ASTM G21
NCO	5.5	%
Electrical	Nominal Value	Unit
Volume Resistivity (25°C)	1.5E+15	ohms · cm
Dielectric Strength (0.0254 mm)	140	kV/mm
Dielectric Constant (25°C, 1 MHz)	2.70	
Dissipation Factor (25°C, 1 MHz)	0.020	
Insulation Resistance		

25°C, 0.0508 mm <sup>1</sup>	4.5E+12	ohms
25°C, 0.0508 mm <sup>2</sup>	2.5E+13	ohms
65°C, 0.0508 mm <sup>3</sup>	1.3E+10	ohms

Thermoset	Nominal Value	Unit	Test Method
Shelf Life	78	wk	
Thermoset Mix Viscosity <sup>4</sup> (25°C)	100	cP	

**NOTE**

1.	After conditioning 24 hours and 50% R.H.
2.	50% R.H.
3.	After 10 days and 95% R.H.
4.	Brookfield

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