

# CONAP® CE-1170

Acrylic

Cytec Industries Inc.

## Message:

CONAP CE-1170 is a single-component air drying room temperature curing acrylic conformal coating that meets the requirements of MIL-I-46058-C for Type AR coatings.

CONAP CE-1170 is a solvent-based coating designed for thin-film applications on components and printed circuitry. It was developed specifically for its fast drying time and reparability, as well as to provide the ultimate in humidity resistance and hydrolytic stability while retaining excellent flexibility to prevent fracturing of fragile components during thermal cycling. Its electrical properties are outstanding.

Cured films maintain excellent adhesion to phenolic and epoxy-glass laminates even in adverse environmental conditions. Components may be removed by heating the coating with a soldering iron, or the entire coating may be removed with a suitable solvent. A tracer dye has been incorporated to aid inspection under ultraviolet light.

General Information			
Features	Fungus Resistant Good Electrical Properties Good Flexibility Halogen Free Humidity Resistant Hydrolytically Stable		
Uses	Coating Applications Electrical/Electronic Applications Film		
Agency Ratings	MIL I-46058C		
Appearance	Amber		
Forms	Liquid		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.948	g/cm <sup>3</sup>	
Solids Content	31	%	
Viscosity (25°C)	400	mPa · s	Brookfield
Flame Resistance	Self-extinguishing		
Flash Point	13	°C	
Fungal Resistance	Non-nutrient		ASTM G21
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (25°C)	2.0E+15	ohms · cm	
Dielectric Strength	> 120	kV/mm	
Dielectric Constant (25°C, 100 Hz)	2.50 to 3.00		
Dissipation Factor (25°C, 100 Hz)	0.010		
Insulation Resistance <sup>1</sup> (25°C)	> 1.5E+16	ohms	
Thermoset	Nominal Value	Unit	Test Method

Shelf Life (25°C)	78	wk
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NOTE

1. Initially and 50% R.H.

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