

CONATHANE® CE-1175

Polyurethane
Cytac Industries Inc.

Message:

CONATHANE CE-1175 is a single-component water-based polyurethane conformal coating that meets the requirements of MIL-I-46058-C Type UR. CONATHANE CE-1175 is designed for thin-film applications on components and printed circuitry. It was developed specifically to provide the ultimate in humidity resistance and hydrolytic stability, yet retain 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	Conformable		
	Moisture proof		
	Solvent resistance		
	Good thermal shock resistance		
	Good flexibility		
	Good chemical resistance		
	Hydrolysis stability		
Uses	Films		
	Electrical/Electronic Applications		
	Electrical components		
	Coating application		
Agency Ratings	MIL I-46058C		
Appearance	Amber		
	Transparent amber		
Forms	Liquid		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.10	g/cm ³	
Solids Content	32	%	
Viscosity (25°C)		mPa · s	Brookfield
Pencil Hardness	2H		
Boiling Point	100	°C	
Flame Resistance	Self-extinguishing		
Antifungal	Non-nutrient		
Mechanical	Nominal Value	Unit	
Tensile Strength	34.5	MPa	
Electrical	Nominal Value	Unit	
Insulation Resistance ¹ (25°C)	1.5E+14	ohms	

Thermoset	Nominal Value	Unit
Shelf Life (25°C)	65	wk
Additional Information	Nominal Value	Unit

Cure Schedules:

4 hours @ 60°C plus 3-5 days @ 25°C (77°F)

3 hours @ 85°C (185°F) plus 1-2 days @ 25°C (77°F)

2 hours @ 100°C plus 24 hours @ 25°C (77°F)

NOTE

- Initially and 50% R.H.

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

