

AQUASEAL

CONFORMAL COATINGS FOR ELECTRONIC APPLICATIONS

Aquaseal coatings are one component, durable, heat curable conformal coatings for printed circuit assemblies. Aquaseal is an effective alternative to Parylene C, providing better moisture protection and employing a more user friendly coating process. Aquaseal may be applied by spray, dip, or brush. Aquaseal meets MIL-I-46058C specifications.

Aquaseal CYM30 Liquid Properties

	Units	Value	Test Method
Specific Weight	lbs/gal	8.79	ASTM D1475
Solids Content	% by weight	50.0	Fed-Std-141
Viscosity	Cps	<100	Fed-Std-141
Flashpoint	N/A	N/A	
V.O.C.	g/L	525	
Coating Thickness	Mils	2-3	
Curing Conditions	Hours	4 hours @180°F	
Thinner, if necessary	Toluene		
Room Temperature Pot Life	Days	30	
Room Temperature Shelf Life	Months	12	

Aquaseal CYM30 Cured Properties

	Value	Test Method
Clarity	Transparent	
Build per Dip	1 mil	ASTM D823
Adhesion	Excellent	ASTM D2197
Flammability	Self-Extinguishing	ASTM D635
Weather Resistance	Excellent	
Continuous Use Operating Range	-65°C to +150°C	
Thermal Shock	Pass	Mil-I-46058C
Solderability	Excellent	
Coefficient of Thermal Expansion	38ppm/°C	
Glass Transition Temperature	150°C	
Dielectric Withstand Voltage	>1,500 volts	Mil-I-46058C
Dielectric Breakdown Voltage	>10,000 volts	ASTM D149
Dielectric Constant	3.65 @1MHz	ASTM D150
Insulation Resistance	300x10 ¹² ohms	Mil-I-46058C
Moisture Resistance	300x10 ¹² ohms	Mil-I-46058C
Fungus Resistance	Pass	
Chemical Resistance	Excellent	