

CAAP CO., INC.

POLYURETHANE * **Erosion Resistant Aircraft Coatings** * FLUOROELASTOMER

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PRODUCT DATA

CAAPCOAT B-274/AS-P108 BLACK ANTISTATIC POLYURETHANE RAIN EROSION COATING AMS-C-83231A (MIL-C-83231A), TYPE II, CLASS A, COMPOSITION L

DESCRIPTION

CAAPCOAT B-274/AS-P108 Rain Erosion Resistant coating is a two component room temperature curing polyurethane elastomer designed to protect aircraft radomes, antennas and leading edges from rain impact at high speed while preventing static charge buildup on their surfaces. CAAPCOAT B-274/AS-P108 meets the Quality Conformance Inspection requirements of AMS-C-83231A (MIL-C-83231A), Type II, Class A, Composition L.

COMPONENTS

3,000 g	Gallon can	B-274 Black Polyurethane
192 g	Glass bottle	Curing Agent
192 g	Glass bottle	Accelerator
800 g	Quart can	AS-P108 Gloss Black Antistatic Polyurethane
24 g	Glass bottle	Catalyst
1,600 g	½ Gallon F can	PUT-10 Polyurethane Thinner
1 Quart Kit	Quart can, HDPE bottle	Aeroglaze 9947 Wash Primer

APPLICATION

Either pressure or suction spray equipment can be used to apply CAAPCOAT B-274 and AS-P108 polyurethane coatings. The B-274/AS-P108 system is applied to primed laminate or metal surfaces to a thickness of 11-13 mils. Approximately 0.5 - 1 mil of dry film thickness per crosscoat can be achieved, depending on equipment used and spray technique. No special temperature or humidity conditions are required for CAAPCOAT B-274 and AS-P108 application. Recommended conditions are 60 - 80°F and 40 - 70 % RH. Full thickness coatings can be applied in less than six hours.

PROPERTIES

	<u>B-274</u>	<u>AS-P108</u>
Non-volatile Content, minimum	40%	50%
Weight per Gallon (Gardner), minimum	7.6 lbs.	7.5 lbs.
Viscosity @ 25°C (77°F) (Brookfield RVF No. 2 @ 20 rpm)	250 - 500 cps	900 - 1500 cps
Coverage (typical)	25 - 30 sq ft/kit @ 11 - 13 mils	100 - 120 sq ft/kit @ 1 - 2 mils
Pot Life	Greater than 4 hours @ 75°F	
Flash Point (Tag Open Cup)	68°F (20°C)	
Shelf Life, minimum	12 months from date of manufacture	
Shipping Name	Paint Related Material, UN 1263	
VOC as used	596 g/l, 4.96 lbs/gal	592 g/l, 4.93 lbs/gal

RAIN EROSION RESISTANCE

AFML Rotating Arm test results for CAAPCOAT B-274/AS-P108:

CONDITIONING

Ambient
Thermal Aging (24 hours @ 225°F (107°C))
Florida Weathering (6 months)

AVERAGE TIME TO FAILURE

180 minutes (no damage)
180 minutes (no damage)
180 minutes (no damage)

FILM PROPERTIES

Specific Gravity
Dielectric Constant @ 9.375 GHz
Loss Tangent @ 9.375 GHz
Power Transmission @ 9.375 GHz
Surface Resistivity
Peel Strength

B-274/AS-P108

1.18 / 1.2
3.12/4.82
0.068
Greater than 90%
0.5 - 15 megohms
Greater than 7 lb/in or cohesive
film failure
250°F (121°C)
415°F (213°C)
No change after 24 hours @ 225°F (107°C)
No change after 30 days @ 120°F (49°C)
and 95% R.H.
No change after 6 months Florida weathering

Service Temperature
Degradation Temperature (DSC)
Thermal Resistance
Humidity Resistance

Weather Resistance

FLUID RESISTANCE

One hour exposure to commercial and military fluids

Alcohol	Excellent
Dimethyl Formamide	Poor
JP-4	Excellent
Methyl Ethyl Ketone	Poor
Oil	Excellent
Skydrol Hydraulic Fluid	Poor
Tetrahydrofuran	Poor
TT-S-735 Type III Test Fluid	Excellent
Xylene	Good
MIL-A-8243 Deicer	Excellent
MIL-C-25769 Alkaline Cleaner	Excellent
MIL-H-5606 Hydraulic Fluid	Excellent

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