



WS-8072 Class B

Non-Chromate Corrosion Inhibitive Sealant

WS-8072 Class B is a non-chromate corrosion inhibitive, light weight, fast curing polysulfide sealant. Two-part manganese cured polysulfide system with eco-friendly profile provides an effective barrier against the common causes of corrosion on aluminum and between dissimilar metals. AC-8072 B retains excellent performance characteristics at temperature excursions up to 360°F. Typical applications include sealing of faying surfaces of mating parts of aircraft structure to prevent corrosion and channeling leakage. WS-8072 Class B has outstanding retention of physical properties when exposed to aviation fuel and oils. It is a thixotropic paste with non-sag characteristics and is able to be applied by an extrusion gun or with a spatula.

Technology / Base	Polysulfide
Type of Product	Sealant
Components	Two component
Curing	Room temperature
Appearance / Color	Dark brown
Consistency	Extrudable
Recommended Application	Fillet and butt joint surface sealing of aircraft structure

Features and Benefits

- Excellent corrosion protection for aluminum alloys and between dissimilar metals
- Fast curing system significantly increasing productivity
- Low density providing up to 30% weight saving
- Eco-friendly profile creates safe environment and eliminates hazardous waste
- Excellent elastomeric properties and strength retention after limited exposure to jet fuel, aviation gasoline, hydraulic fluids, oils, and lubricants
- High temperature resistance with intermittent operational temperature up to 360°F
- Outstanding adhesion to multiple metals, composites, primers, and coatings used in modern aircrafts
- Non-nutrient containing, fungus resistant

Technical Data

Physical Properties (Uncured)

Property	Part B (base)	Part A (Hardener)	Mixed
Viscosity	10,000 – 15,000 poise	-	10,000 – 15,000 poise
Color	Yellowish	Black	Dark Brown
Mix Ratio by Volume	100	7.9	-
Mix ratio by Weight	100	12	-

Physical Properties (Cured)

Property	Results	Notes
Specific Gravity	1.15	Maximum
Non-Volatile Content	96%	Minimum value
Slump	0.1 inches, max	B-1/2, B-2
Ultimate Hardness	45	Shore A
Tensile Strength	> 200 psi	Standard Cure (14 days at 77°F)
Ultimate Elongation	> 250%	Tested per MIL-PRF-81733
Service Temperature (continuous)	-54 °F to 250 °F	Operational range
Service Temperature	Up to 360 °F	Intermittent exposure
Low Temperature Flexibility	-65 °F	No loss of adhesion or cracking



Peel Strength

Substrate	Strength	Mode	Notes
AMS 4376 (magnesium)	37 pli	100% CF	MIL-PRF-83282 2-day immersion @140°F(60°C)
	33 pli	100% CF	MIL-PRF-7808 2-day immersion @140°F(60°C)
	37 pli	100% CF	MIL-PRF-23699 2-day immersion @140°F(60°C)
	32 pli	100% CF	3%SW 2-day immersion @ 140°F(60°C)
	35 pli	100% CF	AMS2629 JRF 2-day immersion @ 140°F(60°C)
Cad Plated Steel (4130) per QQ-P-416	38 pli	100% CF	MIL-PRF-83282 2-day immersion @140°F(60°C)
	40 pli	100% CF	MIL-PRF-7808 2-day immersion @140°F(60°C)
	32 pli	100% CF	MIL-PRF-23699 2-day immersion @140°F(60°C)
	39 pli	100% CF	3%SW 2-day immersion @ 140°F(60°C)
	32 pli	100% CF	AMS2629 JRF 2-day immersion @ 140°F(60°C)
AMS4911 (Titanium)	37 pli	100% CF	AMS2629 JRF 7-days immersion @ 140°F(60°C)
	44/39 pli	100% CF	AMS2629 JRF/3%SW (50/50) 7-days immersion @ 140°F(60°C)
	41/35 pli	100% CF	AMS2629 JRF/3%SW (50/50) 6 cycles
AS 4/3501-6 (Graphite/Epoxy)	35 pli	100% CF	AMS2629 JRF 7-days immersion @ 140°F(60°C)
	39/41 pli	100% CF	AMS2629 JRF/3%SW (50/50) 7-days immersion @ 140°F(60°C)
	38/37 pli	100% CF	AMS2629 JRF/3%SW (50/50) 6 cycles
IM 7/5250-4 (BMI) (tool/ply)	41 pli	100% CF	AMS2629 JRF 7-days immersion @ 140°F(60°C)
	40/39 pli	100% CF	AMS2629 JRF/3%SW (50/50) 7-days immersion @ 140°F(60°C)
	35/34 pli	100% CF	AMS2629 JRF/3%SW (50/50) 6 cycles

Note: All peel test were performed to the requirements of MIL-PRF-81733 and/or AMS3265. Values are typical and not intended for specification use or for acceptance inspection criteria.

Cure Profile

Work Life	B-1/2	B-2
Application Life (g/cc at hours)	½	2
Assembly time (<0.005 inches)	3	7
Cure time to 35 A Durometer (hrs.)	<5	<9

Storage Conditions

The shelf life of WS-8072 Class B is 9 months from the date of packaging when stored below 80°F (27°C) in the original unopened container.

The storage life of premixed and frozen material (PMF) is a minimum of 30 days at temperatures below -40°F (-40°C).

Specifications and Approvals

- MIL-PRF-81733, Class 1, Grade B
- AMS3265
- SS8629

Date Modified: 29 February 2024

Application Instructions

Clean the surface of substrates with appropriated cleaning solutions per specification(s) using an OEM approved lint-free cloth to remove dirt, grease, and processing oils just before the application of the sealant. Pour solvent onto the cloth to avoid contamination of solvent supply. Clean in small areas at a time. Wipe with a second dry cloth after each application to prevent redeposition of the contaminants on the surface. Repeat at least three times or more if required. Use fresh a fresh wiping cloth every time. Substrate composition and surface characteristics can greatly vary, which can affect sealant adhesion. It is recommended to determine adhesion characteristics of specific substrates prior to application of the sealant to get consistency.

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