



WS-8072 Class C

Non-Chromate Corrosion Inhibitive Sealant

WS-8072 Class C is a two-part manganese cured non-chromate corrosion inhibitive polysulfide system with eco-friendly profile. The sealant provides an effective barrier against the common causes of corrosion on aluminum and between dissimilar metals. WS-8072 Class C 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 C has outstanding retention of physical properties when exposed to aviation fuel and oils. This flowable compound is easily applied by an extrusion gun, roller, brush or with a spatula.

Technology / Base	Polysulfide
Type of Product	Sealant
Components	Two component
Appearance / Color	Dark brown
Consistency	Extrudable, rollable, brushable
Recommended Application	Faying surfaces

Features and Benefits

- Excellent corrosion protection for aluminum alloys and between dissimilar metals
- 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	2,500-3,600 poise	-	4,000 poise
Color	Yellowish	Black	Dark Brown
Mix Ratio by Volume	100	8.5	-
Mix ratio by Weight	100	12	-

Physical Properties (Cured)

Property	Results	Notes
Specific Gravity	1.43	Maximum
Non-Volatile Content	94%	Minimum value
Ultimate Hardness	38	Shore A
Shear Strength	> 320 psi	Standard Cure (14 days at 77°F)
Corrosion	no evidence of corrosion of metal under the sealant	Tested per MIL-PRF-81733
Tensile/Elongation	320/500%	Standard Cure (14 days at 77°F)
Service Temperature (continuous)	-65°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)	48 pli	100% CF	MIL-PRF-83282 2-day immersion @140°F(60°C)
	46 pli	100% CF	MIL-PRF-7808 2-day immersion @140°F(60°C)
	38 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	37 pli	100% CF	MIL-PRF-83282 2-day immersion @140°F(60°C)
	52 pli	100% CF	MIL-PRF-7808 2-day immersion @140°F(60°C)
	35pli	100% CF	MIL-PRF-23699 2-day immersion @140°F(60°C)
	44 pli	100% CF	3%SW 2-day immersion @ 140°F(60°C)
AMS4911 (Titanium)	42 pli	100% CF	AMS2629 JRF 2-day immersion @ 140°F(60°C)
	41 pli	100% CF	AMS2629 JRF 7-days immersion @ 140°F(60°C)
	44/40 pli	100% CF	AMS2629 JRF/3%SW (50/50) 7-days immersion @ 140°F(60°C)
AS 4/3501-6 (Graphite/Epoxy)	48/48 pli	100% CF	AMS2629 JRF/3%SW (50/50) 6 cycles
	51 pli	100% CF	AMS2629 JRF 7-days immersion @ 140°F(60°C)
	52/48 pli	100% CF	AMS2629 JRF/3%SW (50/50) 7-days immersion @ 140°F(60°C)
IM 7/5250-4 (BMI) (tool/ply)	45/47 pli	100% CF	AMS2629 JRF/3%SW (50/50) 6 cycles
	51 pli	100% CF	AMS2629 JRF 7-days immersion @ 140°F(60°C)
	43/49 pli	100% CF	AMS2629 JRF/3%SW (50/50) 7-days immersion @ 140°F(60°C)
	38/39 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	C-8/12	C-48
Application Life (g/cc at hours)	35	100
Assembly time (<0.005 inches)	24	168
Cure time to 35 A Durometer (hrs.)	<120 h	<672h

Storage Conditions

The shelf life of WS-8072 Class C 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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