

WS-8040 Class B

Windshield Sealant

WS-8040 Class B is a fast-curing polysulfide windshield and canopy sealant. Two-part manganese cured polysulfide sealant has a service temperature range of -65 °F to 250 °F with intermittent excursion up to 360 °F. The product is designed for fillet sealing of aluminum, acrylic, polycarbonate, glass, and other aircraft sealing applications. WS-8040 Class B has outstanding retention of physical properties when exposed to aviation fuel and oils. It is a thixotropic paste with non-sag characteristics that can be applied by extrusion gun or spatula.

General Information

Technology / Base	Polysulfide
Type of Product	Sealant
Components	Two Component
Curing	Room Temperature
Consistency	Extrudable
Recommended Application	Fillet and butt joint surface sealing for aircraft structure

Features and Benefits

- Eco-friendly profile creates safe environment and eliminates hazardous waste
- Fast curing system significantly increases productivity
- 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 acrylic, polycarbonate, different aluminum alloys and coatings used in modern aircraft
- UV-Resistant
- Non-nutrient containing, resistant to fungal growth

Technical Data

Physical Properties (uncured)	Part B (base)	Part A (hardener)	Mixed
Viscosity	10,000 – 17,000 poises	-	10,000 – 13,000 poises
Color	Black	Black	Black
Mix Ratio by Volume	100	10	-
Mix Ratio by Weight	100	12	-

Physical Properties (cured)	Results	Notes
Specific Gravity - Mix	≤ 1.43	
Non-Volatile Content	≥ 98%	
Slump	≤ 0.5 inch	
Ultimate Hardness	50	Shore A
Ultimate Elongation	> 400%	Standard Cure (14 days at 77 °F)
Tensile Strength	> 300 psi	Standard Cure (14 days at 77 °F)
Ultimate Elongation	> 400%	Standard Cure (14 days at 77 °F)
Service Temperature (continuous)	-65 °F to 250 °F	Operational range
Service Temperature (intermittent)	Up to 360 °F	
Low Temperature Flexibility	-65 °F	No loss of adhesion or cracking



Peel Strength

Substrate	Strength	Failure Mode	Notes
Mil-P-8184 (Acrylic)	55 pli	100% cohesive failure	Use of Adhesion Promoter, Standard Cure
MIL-P-5424 (Acrylic)	60 pli	100% cohesive failure	Use of Adhesion Promoter, Standard Cure
Aluminum (2024 T3)	50 pli	100% cohesive failure	Use of Adhesion Promoter, Standard Cure
	65 pli	100% cohesive failure	Standard Cure

Cure Profile

Work Life	B-1/2	B-2
Application Life (hrs)	1/2	2
Tack Free Time (hrs)	4	6
Cure Time to 30 A Hardness (hrs)	< 5	< 7

Application Instructions

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

Storage Conditions

The shelf life of WS-8040 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 30 days at temperatures below -40 °F (-40 °C).

Typical Packaging

Injection Kit, Can Kit, Premixed and Frozen (PMF)

Safety and Disposal

Please see the Material Safety Data Sheet (SDS) for proper handling and disposal instructions.

Specifications and Approvals

- NA

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