PRC® and Pro-Seal™

Aerospace Sealants



PPG. Global leadership in aerospace sealants and service.



For more than 50 years, PPG's aerospace segment has been a leader in the development of products fundamental to aerospace manufacturing, maintenance, and repair. That leadership is firmly established in the highly specialized field of aerospace sealants.

PRC® aerospace sealants were the first elastomeric products capable of resisting deterioration from long-term exposure to jet fuel. Since then, sealants such as PR-1422 and Pro-Seal™ 890 have become acknowledged industry standards for sealing fuel tanks in virtually every aircraft in the world.

This tradition of leadership continues with innovative new sealants based on our advanced Permapol® polymers. These sealants are lighter in weight, withstand higher temperatures, cure faster, and are easier to apply.

Supported by a global network of application support centers (ASCs), each staffed by technical support specialists who can quickly provide needed service and information, PPG continues to establish higher standards for product and service excellence.

We’re at work in more aerospace applications than anyone else in the world.



Fuel tank/proven standards

Proven over years of on-going service.

Product	Features	Chemistry	Approved by
P/S 890	Over 40 years of field service	Polysulfide, manganese dioxide cured	Boeing, Cessna, Raytheon (Beech), SAAB, SAE (AMS)
PR-1422*	Over 40 years of field service, humidity independent cure	Polysulfide, dichromate cured	Airbus S.A.S., BAE SYSTEMS, Boeing (Long Beach), EMBRAER, Lockheed, SAAB, UK MoD
PR-1440	Over 35 years of field service	Polysulfide, manganese dioxide cured	SAE (AMS), Sikorsky, UK MoD
PR-1750	Higher temperature resistance	Polysulfide, manganese dioxide cured	Boeing (St. Louis), Lockheed, SAE (AMS)
PR-1776, PR1776-M	20% lower weight than P/S 890, (SpG = 1.30)	Polysulfide, manganese dioxide cured Permapol® P-5 polymer	Airbus S.A.S., Boeing, Bombardier, Cessna, Lockheed, Raytheon, SAE (AMS), Embraer

*Note: PR-1422 is no longer manufactured in the EU

Fuel tank/high performance options

Advanced technology. Superior performance.

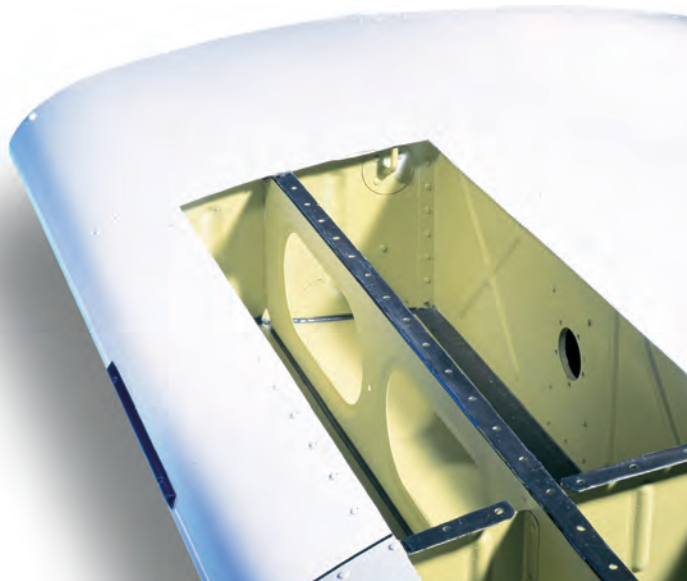
Product	Features	Chemistry	Approved by
PR-1770	High strength, high solids content, excellent tensile/peel strength properties	Polysulfide, manganese dioxide cured Permapol® P-5 polymer	BAE SYSTEMS, Boeing, Eurofighter, Northrop Grumman
PR-1782	30% lower weight than P/S 890 and PR-1440 (SpG = 1.1)	Polysulfide, manganese dioxide cured	Airbus S.A.S.
PR-2001	Rapid curing, light weight (SpG = 1.4), low odor, low shrinkage, excellent tooling properties	Polythioether, epoxy cured Permapol® P-3.1 polymer	Boeing (St. Louis), Lockheed, Northrop Grumman, U.S. Navy, SAE (AMS)
PR-2007	30% lower weight than P/S 890 and PR-1440 (SpG = 1.1)	Polysulfide, manganese dioxide cured	SAE (AMS), Embraer, Cessna

Corrosion inhibitive

Protects the airframe from harsh environments.

Product	Features	Chemistry	Approved by
P/S 870	Benchmark corrosion inhibitive sealant, 3-7% soluble chromate	Polysulfide, manganese dioxide cured	Boeing, Bombardier, Lockheed, SAAB, U.S. Navy
PR-1432-GP	Highly flexible, sprayable alternative to rigid epoxy primers for painting aircraft exteriors; excellent adhesion, but easy to strip when required	Polysulfide, dichromate cured	Boeing, USAF
PR-1436-G Spr.	Sprayable	Polysulfide, dichromate cured	Boeing, UK MoD, U.S. Navy
PR-1775	Non-chrome, corrosion inhibition	Polysulfide, manganese dioxide cured Permapol® P-5 polymer	Boeing (Long Beach), SAE (AMS)
PR-2870	Non-chrome, corrosion inhibition Light weight (Class B sp.g = 1.1) Faster cure	Epoxy cured/Permapol® P-3.1 Polythioether	US Navy

For optimal fuel capacity, the majority of aircraft store fuel in the wing structure. PRC® and Pro-Seal™ aerospace sealants are used to seal these “wet wings”.



Electrically conductive

Ideal for use where electrical continuity across the seal is required.

Product	Features	Chemistry	Approved by
PR-1764	Corrosion inhibitive, EMI/RFI shielding, fuel resistant	Polythioether, manganese dioxide cured Permapol® P-3 polymer	BAE SYSTEMS, Lockheed, Raytheon, SAAB, SAE (AMS)
PR-2200	Low shrinkage, corrosion inhibitive, EMI/RFI shielding, fuel resistant, excellent elongation	Polythioether, epoxy cured Permapol® P-3.1 polymer	Boeing Military
PR-2201	Low shrinkage, non-chromate corrosion inhibitive, fuel resistant, EMI/RFI shielding, excellent elongation	Polythioether, epoxy cured Permapol® P-3.1 polymer	Lockheed
PR-2225	High temperature resistance	Silicone	Boeing (St. Louis), Northrop Grumman

Fast cure/flight line repair

When time counts.

Product	Features	Chemistry	Approved by
PR-1826	Wider service temp. than polysulfide, rapid cure (4 hours at 77°F/25°C for B-1/2)	Polythioether, epoxy cured, Permapol® P-3 polymer	Boeing, USAF, U.S. Navy
PR-1828	Wider service temp. than polysulfide, rapid cure (4 hours at 77°F/25°C for B-1/2), primerless adhesion	Polythioether, epoxy cured, Permapol® P-3 polymer	Airbus S.A.S.
PR-2001	Rapid cure (3 hours at 77°F/25°C for B-1/2), low weight, low odor, low shrinkage, excellent tooling properties, primerless adhesion, cures at low temperatures	Polythioether, epoxy cured, Permapol® P-3.1 polymer	Airbus, Boeing (St. Louis), Lockheed, Northrop Grumman, U.S. Navy, SAE (AMS)

Adhesion promoters

To ensure consistent adhesion.

Product	Features	Chemistry	Approved by
PR-142	Non-crazing for acrylic and polycarbonate	Silane	GKN, Sierracin
PR-148	Cleaner and coupling agent	Titanate	BAE SYSTEMS, Lockheed, SAE (AMS)
PR-182	Zero VOC's, water based, worker/environmentally friendly	Silane	Boeing (St. Louis), Northrop Grumman, SAE (AMS)
PR-184	Lower flammability, low odor, no aromatic solvents	Titanate	Airbus S.A.S.
PR-187	Coupling agent for polythioether to polysulfide applications	Amine	Northrop Grumman
PR-188	Universal sealant adhesion promoter for use with both polysulfides and polythioethers, VOC exempt in USA	Amine	Lockheed, Northrop Grumman, SAE (AMS)

For a more thorough listing of our products, please visit our website, www.ppgaerospace.com

Specialty products

For unique applications.

Product	Use/features	Chemistry	Approved by
CA 1000	Sealing removable assemblies, one part, non-chromate corrosion inhibitive, non-curing	Polysulfide, epoxy capped Permapol® polymer	BAE SYSTEMS, Eurofighter, Sikorsky, U.S. Navy
CA 1010	Sealing removable assemblies, one part, non-chromate corrosion inhibitive, non-curing, higher service temperature to 320°F (160°C)	Polyester polyol resin	Pratt-Whitney, SNECMA
PR-1425	Aircraft windshield and canopy sealing, humidity independent cure, good UV resistance	Polysulfide, dichromate cured	Aerospace Composite Technologies, Lockheed (Ft. Worth), GKN, PPG, SAAB, Sierracin
PR-1425-CF	Aircraft windshield and canopy sealing, faster cure, chrome free, lower water vapor transmission (MVT)	MnO^2 cured polysulfide	PPG
PR-1428	Access door/form-in-place gasket applications, fuel resistant	Polysulfide, manganese dioxide cured	Boeing, Bombardier (De Havilland)
PR-1772	Low weight fuselage sealant (SpG=1.1)	Polysulfide, manganese dioxide cured Permapol® P-5	Boeing
PR-1773	Access door/form-in-place gasket applications, fuel resistant, non-chromate corrosion inhibitive	Polysulfide, manganese dioxide cured, Permapol® P-5 polymer	SAE (AMS), USAF, U.S. Navy, Cessna
PR-1829	Aircraft windshield and canopy sealing, rapid cure, humidity independent cure, UV resistant, non-crazing	Polythioether, epoxy cured Permapol® P-3 polymer	Aerospace Composite Technologies, Airbus S.A.S.
PR-2050	Flexible aerodynamic smoothing compound, 1 hour cure, low shrinkage, mix on demand	Polythioether, epoxy cured Permapol® P-3.1 polymer	Boeing (St. Louis), Boeing (Philadelphia), Gulfstream, Northrop, Embraer



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PRC-DeSoto International, Inc.
12780 San Fernando Road
Sylmar, CA 91342
USA
Telephone (818) 362-6711
Toll Free (800) AEROMIX
Fax (818) 627-3770

www.ppgaerospace.com

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