



PPG ARE® 3D Printed Sealants



Simplify the aircraft sealant application process with PPG ARE® 3D printed sealants

PPG ARE (Ambient Reactive Extrusion) 3D printed sealants and gaskets are created through our proprietary additive manufacturing technology and designed to simplify the sealant applications process, help reduce overall cost and provide an efficient and effective solution for your aerospace needs.

Benefits of PPG ARE 3D printed sealants

- Helps improve productivity
- Consistent quality
- Reduce cost
- Precured seals reduce exposure to liquid chemicals during installation

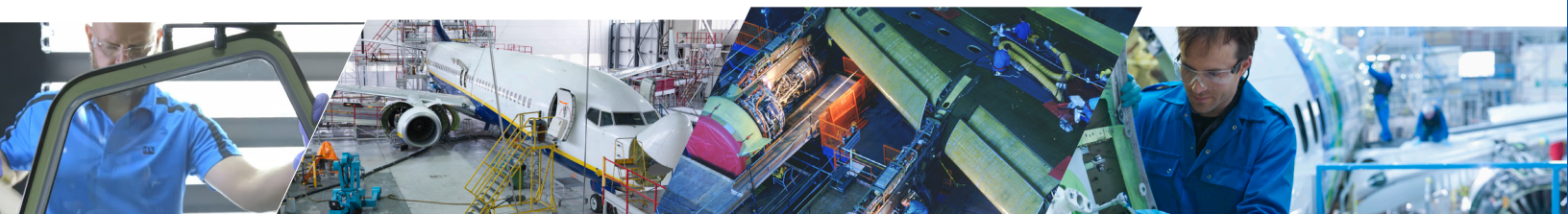


Typical Applications

Fuel Tanks / Wing Seals • Wing Pads • Door / Window Seals • Floor Seals • Thermal Barriers

Limited Access Areas • Large Area Applications • Fastener Covers • Fuel Caps • Custom Seal Caps •

Gap Fillers • Dust Gaskets • Flange Seals



How our process works



Discovery

Working with our team of experts, identify opportunities that benefit from *PPG ARE* 3D printed sealants



Part Design

Using your CAD drawings or our laser scan of the area, we optimize the part design for printing



Prototype Trial

Printed part is fit checked, iterations made, as necessary



Production & Delivery

Produce on-demand, automated production for quick installation

Market validation

C-130J® Super Hercules® Ramp Seals

Manual process vs. automated production

PPG ARE 3D printed sealants provide high precision and consistency. It ensures that every part produced is identical to the original design. Automated production yielded a greater than 30% customer cost savings and 10 times faster installation.



3D Printed
ramp seal



Hand applied
the old way



"These 3D printed sealants are a game-changer for the C-130J Super Hercules. *PPG ARE* 3D printing is an outstanding example of how manufacturing innovation and evolution combine to deliver affordable, customized and durable components for our operators".

**Rod McLean, VP and General Manger
of Lockheed Martin's Air Mobility & Maritime Missions**



PPG's aerospace global capability

Offering a comprehensive range of innovative aerospace products and services for commercial, regional, military, and business aviation. Our network of Application Support Centers (ASCs) are conveniently located to offer global capability from a regional base that improves delivery of our products and brings technical resources closer to you.

Aerospace Transparencies

- Aircraft cockpit and cabin windows
- Canopies
- Dimmable windows and shades
- Landing light lenses
- Hydrophobic coatings
- UV and solar protection

Transparent Armor and Specialty Products

- Aerospace quality ballistic and blast-resistant transparencies
- Rail, marine and specialty windows
- Urethane interlayers

Aerospace Sealants

- PPG PRC® and PPG ProSeal™ high performance sealants
- Customized sealant solutions

Aerospace Packaging

- PPG Semco® Packaging & Application Systems
- Cartridges
- Nozzles
- Syringes
- Scrapers
- Mixing and dispensing equipment

Aero Services

Chemical management and packaging solutions designed for the aerospace industry

Aerospace Coatings

- High performance primers, topcoats and specialty coatings
- PPG DeSoto®, PPG Deft® aerospace coatings
- Hydrophobic coatings
- UV and solar protection

Surface Solutions

High performance hexavalent chrome free*

RECC, TCP and EAP pretreatments

- Corrosion inhibitors
- Adhesion promoters
- Solvent cleaners
- Paint strippers
- Farécla polishes and waxes

*Chromium is not intentionally added in the formulation of this product. PPG's "Chrome free" statement is based on our knowledge of the product formulation.

Engineered Materials

- Microwave and radar absorbers
- Dielectric materials
- Anechoic chambers
- Expanded metal foils and polymer films
- Micro-perforated foils and performance plastics

Application Support Centers

Local, right-size packaging and distribution network for PPG and third party products

For the aerospace application support center nearest you, please visit our website at www.ppg.com/aerospace

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This document has been reviewed by PPG aerospace and it has been determined to contain only EAR99 data.

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