



PPG ARE™ 3D Printed Sealants



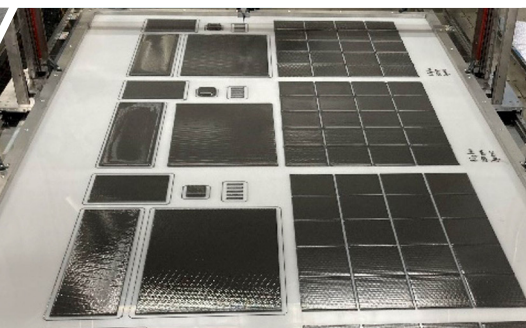
Simplify the aircraft sealant application process with PPG ARE™ 3D printed sealants



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, reduce overall cost and providing a more efficient and effective solution for your aerospace needs.

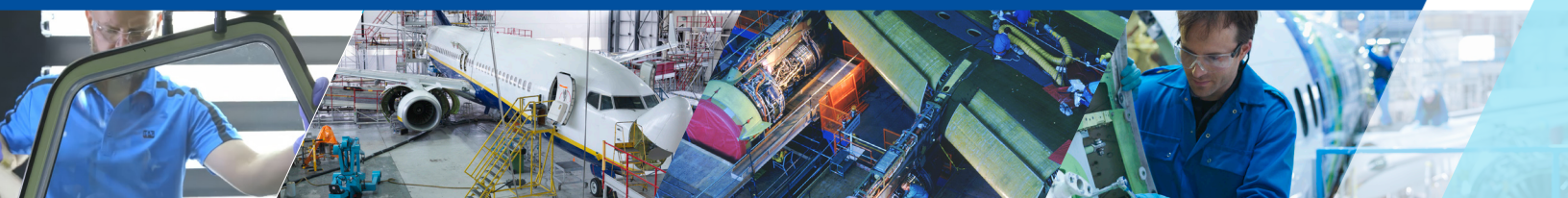
Benefits of PPG ARE 3D printed sealants

- Improved Productivity
- Consistent Quality
- Meet Sustainability Goals
- Reduce Cost
- Improved Safety



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

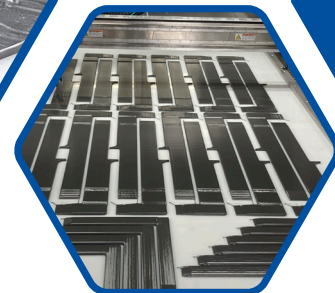
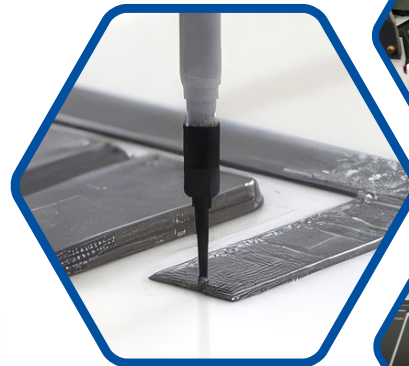
PPG ARE 3D printed sealants provide high precision and consistency. It ensures that every part produced is identical to the original design. Automated production yielded a greater than 30% customer cost savings and 10 times faster installation.



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

At PPG, we offer a comprehensive range of innovative aerospace products and services for original equipment manufacturers and aftermarket customers in commercial, regional, military, and business aviation. We are committed to providing breakthrough technology and exceptional quality, availability, sales, and service. Our network of Application Support Centers (ASCs) is conveniently located to offer global capability from a regional base to expedite delivery of our products and bring technical resources closer to our customers.

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

Chemical Management Services

Chemical and fluid management, process management and logistics

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

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.ppgaerospace.com

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