

Customized Sealant Solutions

For Those Unique Aircraft Sealing Challenges

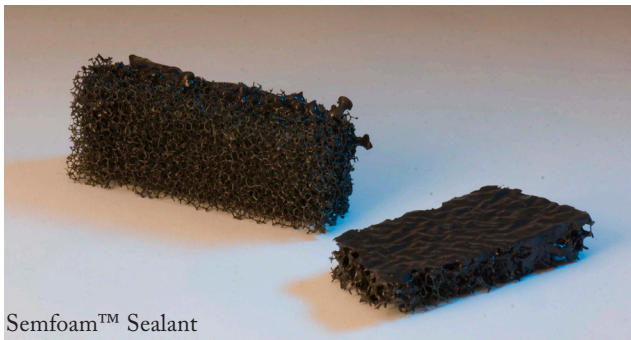
What are Customized Sealant Solutions (CSS)?

Increasingly, airframe manufacturers and airlines are being driven to find lean approaches in how they seal their aircraft. PPG Aerospace initiated its Customized Sealant Solutions (CSS) program to team with customers and develop innovative product concepts that optimize and simplify the process of sealing aircraft. These CSS products are supplied in unique customer specific forms and provide traditional fuel tank sealing, corrosion-inhibiting and smoothing characteristics while affording significant labor time and quality advantages.

Semfoam™ Sealant

Semfoam™ sealant is an engineered sealant solution for aircraft design issues. Semfoam™ sealant is an open-cell, inert polyurethane foam which has been precisely cut to a pre-agreed shape, then accurately loaded with the appropriate aerospace sealant and snap frozen. Semfoam™ sealant is normally supplied as a kit made up of several pieces that will, when assembled together, fill a particular cavity on the aircraft. Some of the benefits offered by Semfoam™ sealant are:

- Increases the speed of the sealing operation by eliminating the need to build up sealant in layers for large apertures.
- There is no sealant waste and the packaging can be returned to PPG Aerospace, cleaned and re-used repeatedly.
- Semfoam™ sealant assumes the precise shape of the aperture to ensure that all potential gaps are filled, eliminating air pockets.

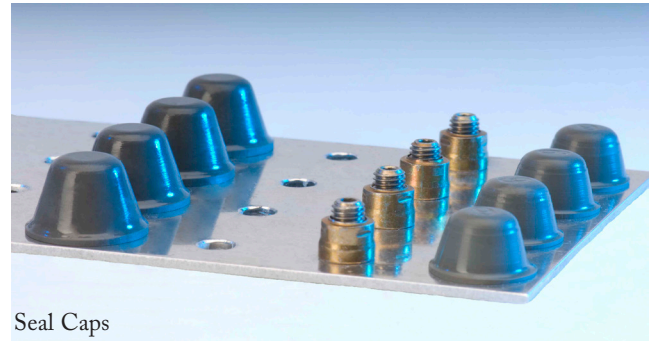


Semfoam™ Sealant

Seal Caps

PRC® Seal Caps are formed and molded from any PRC® or Pro-Seal™ brand sealant. They are cured to form a flexible rubber shell, filled with additional sealant and used for dome-sealing of fasteners. PRC® Seal Caps offer a variety of benefits for the customer such as:

- Reduced waste, uses less sealant.
- Decreased application time and tooling.
- Fitted specifically to each fastener.
- Improved, consistent, quality of application.

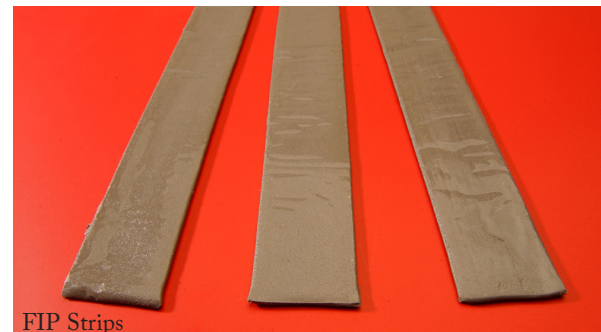


Seal Caps

FIP Strips

PRC® FIP Strips are an innovative sealing method designed to reduce application costs and improve efficiency. They are pre-formed strips of sealant for use in sealing of gaps, joints or other areas where conventional wet sealants may be used. They are available in a number of standard sizes and shapes, as well as custom designed configurations to fit unique requirements. Some of the benefits offered by FIP Strips are:

- Reduced application cost and time.
- Limited clean up required and decreased waste.
- Simple application process that does not require special skills.



FIP Strips

Customized Sealant Solutions

PRC® Pre-formed Sealant Gaskets and Fillets

PRC® pre-formed sealant gaskets and fillets are cast in custom shapes and sizes to a customer's specification for highly specialized applications. One practical application PPG Aerospace has developed is PRC® Drainblocks for BAE Systems' Typhoon combat aircraft. PRC® Drainblocks are applied in the rear fuselage side structure of the aircraft. Pockets near the engine bay can accrue moisture and water which can lead to a variety of issues. The pre-formed sealant gaskets are designed with holes that are used to drain moisture and water build up during flight in the specific part of the aircraft.

Some of the benefits offered by the Pre-formed Sealant Gaskets are:

- Customized to meet the needs of the customer and as a result are able to address a variety of issues that accompany sealant application
- Since the gaskets are pre-formed, they require minimal tooling
- Requires less wet sealant because the gaskets are already cured



PPG Aerospace is dedicated to working with their customers to design cutting-edge *Customized Sealant Solutions (CSS)* technology to meet the varying challenges manufacturers face.

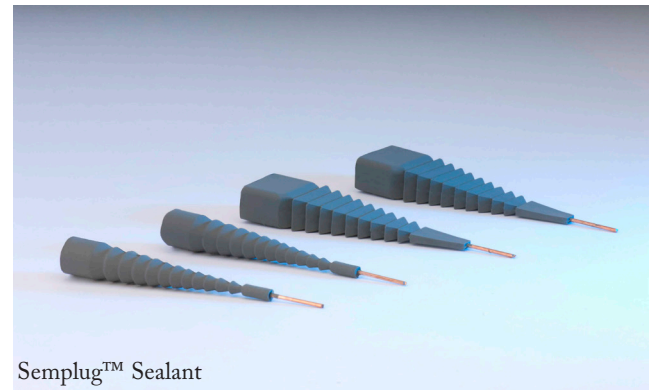
All recommendations, statements, and technical data contained herein are based on tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. User shall rely on his own information and tests to determine suitability of the product for the intended use and assumes all risks and liability resulting from his use of the product. Seller's and manufacturer's sole responsibility shall be to replace that portion of the product of this manufacturer which proves to be defective. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss, or damage directly or indirectly resulting from use of, or inability to use, the product. Recommendations or statements other than those contained in a written agreement signed by an officer of the manufacturer shall not be binding upon the manufacturer or seller.

PRC, Pro-Seal, Semfoam and Semplug are trademarks of PRC-DeSoto International, Inc.

Semplug™ Sealants

Semplug™ Sealants are pre-cast sealants used to seal joggles and structural gaps on aircraft. They are placed in between open gaps on the exterior of the aircraft, then broken off to leave a form-fitting piece of sealant in the joggle. Previously, aircraft manufacturers would have had to create several layers of sealant to seal these gaps. Semplug™ Sealants offer a number of benefits including:

- Decreased application time and tooling.
- Increased quality; the seal created by Semplug™ Sealants is more form fitting than the previous layers of sealants.
- Previously, layers of sealant would have been subjected to sagging in the gaps and joggles. The use of PRC® Semplug™ Sealants reduces the occurrence of this issue.



Health Precautions

These products are safe to use and apply when recommended precautions are followed. Before using these products, read and understand the Material Safety Data Sheet (MSDS), which provides information on health, physical and environmental hazards, handling precautions and first aid recommendations. An MSDS is available on request. Avoid overexposure. Obtain medical care in case of extreme overexposure.

For industrial use only. Keep away from children.

Additional information can be found at

www.ppgaerospace.com.

