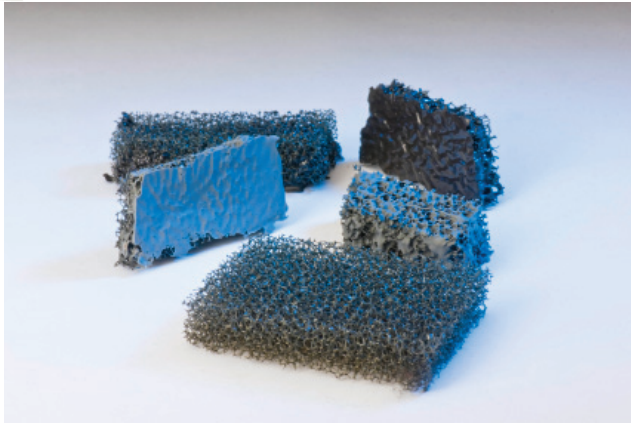


Customized Sealant Solutions

PRC Semfoam™ Sealant Solution



What is PRC 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 of several pieces that will, when assembled together, fill a particular cavity on the aircraft.

When needed, the kit is removed from the freezer and allowed to defrost. Each piece is removed from the kit-box and inserted, in sequence into the cavity. The foam is compressed by the component assembly process to fully fill the cavity with sealant.

The polyurethane foam acts as a carrier holding the sealant in place during assembly.

The choice of sealant and PPG Aerospace's precise control of the sealant loading during impregnation ensure that there are no air pockets in the sealant and no excess squeeze out to clean up.

Why PRC Semfoam™ Sealant?

Faster

- Semfoam™ sealant is simply defrosted and placed in position.
- Semfoam™ sealant increases the speed of the sealing operation by eliminating the need to build up sealant in layers for large apertures.
- It is especially suitable for sealing critical apertures where access is limited.

Easier

- Semfoam™ sealant is simply defrosted and placed in position – no artisan technique or tooling required.
- As an engineered solution, Semfoam™ sealant allows for increased engineering tolerances to be used.

Cleaner

- Semfoam™ sealant is self contained with no other equipment needed for application or clean up.
- There is no sealant waste and the packaging can be returned to PPG Aerospace, cleaned and re-used repeatedly.

Improved Quality

- Semfoam™ sealant is designed for the cavity in which it is used and therefore improves the quality and reliability of the finished seal.
- Semfoam™ sealant assumes the precise shape of the aperture to ensure that all potential gaps are filled.
- Apertures sealed with Semfoam™ sealant are free from voids and air pockets.

Typical Applications

Typical applications are sealing between the ribs and stringers which form the perimeter of the wing center box and sealing between the wing root and the fuselage. It replaces the traditional method which is to inject several layers of class B sealant in sequence, allowing each layer to cure to an extent before the next is applied.

It can also be applied to any area of an aircraft where engineering tolerances of components are hard to control, e.g. large scale composites.

Storage Life

The storage life for the frozen pieces of Semfoam™ sealant is determined by the specification to which the chosen sealant is qualified. Typically this is 28 days at -40°F (-40°C).

Available Standard Sizes

Semfoam™ sealant is a collaborative technology and pieces are designed and made to customer specification. As a result there are no standard sizes.

The degree of impregnation with sealant is also determined in collaboration with the customer to resolve their specific need.

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Typical Properties

The cured and uncured properties of Semfoam™ sealant are those of the sealant from which it is made. Depending upon the PRC® sealant which is chosen to impregnate the foam, the finished seal will be compliant with major specifications such as AMS-S-8802, BMS 5-45 or AIMS 04-05-012.

Application Steps

Semfoam™ sealant kits are normally delivered to -40°F (-40°C) freezers located at the customer's assembly track. The user will remove the kit-box from the freezer and allow it to defrost at ambient temperature. (Normally this takes about 10 minutes). When the box is opened, the customer part numbers for each piece will be visible. The user removes each piece in turn and pushes it into position in the aperture as specified in the drawings.

Health Precautions

This product is safe to use and apply when recommended precautions are followed. Before using this product, 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.**

**For sales and ordering information call
1-800-AEROMIX (237-6649).**

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.

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