Aerospace Products

PRC

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PS 892 C

FAYING SURFACE SEALING COMPOUND

USE

PS 892 C is a flowable compound for sealing the faying surface of integral fuel tanks and pressurized cabins.
PS 892 C was especially developed for use over a temperature range of - 55°C + 120°C and will resist aircraft fuels (aviation gasoline or jet fuel), oils and hydraulic fluids.

DESCRIPTION

PS 892 C is a two-part manganese cured, based on Polysulfide liquid polymers.
The mixed compound is a trowable liquid that may be applied with a brush, trowel or roller and does not flow from vertical or overheadsurfaces after application as a faying surfaces sealant.

SPECIFICATION

Meets the requirements of and qualified to
DAN 1184 - 00/01/02/05/06

PURCHASING

PRODUCT DESIGNATION

When ordering this product, designate PS number, class letter, and dash number as follows :

PS 892 C2 (application life : 2 h.)
PS 892 C3 (application life : 3 h.)
PS 892 C12 (application life : 12 h.)
PS 892 C24 (application life : 24 h.)
PS 892 C48 (application life : 48 h.)
PS 892 C70 (application life : 70 h.)

STANDARD PACKAGING

DESIGNATION

KITS :

	Base Volume	Container	Number of Kits per case
KIT n° 10	0,10 liter	1/4 l. Can	12
KIT n° 25	0,25 liter	1/2 l. Can	12
KIT n° 50	0,50 liter	1 liter Can	12
KIT n° 100	1,00 liter	2 liters Can	6

SEMKITS :

	Total Content	Number per Case
655	55 cc	24
654	100 cc	24

LE JOINT FRANCAIS
SEALANTS ADHESIVES & COATINGS
84/116 rue Salvador Allende, 95870 Bezons - Tél 01.34.23.34.23 - Télécopie 01.34.23.34.99
http : \\www.hutchinson.fr

HUTCHINSON WORLDWIDE

APPLICATION PROPERTIES (typical)

- Couleur Base White
  Accelerator Black
- Mixing ratio by weight Base / Accelerator 10 : 1

- Nonvolatile content (mixed compound) 90%

- Viscosity (Brookfield # 7 @ 10 rpm) 150-200 Pa.s

- **Application Life and Cure Time**

	Application Life (hours)	Assembly Time (hours)	To 10 Shore A (hours)	To 30 shore A (hours)
Type C 2	2	3	8	
Type C 3	3	10		72
Type C 12	12	20		14 days or 24 h / 23°C + 48 h / 50°C.
Type C 24	24	80		21 days or 24 h / 23°C + 96 h / 50°C.
Type C 48	48	168		56 days or 24 h / 23°C + 216 H / 50°C
TYPE C 70	70	250		70 days or 24 h / 23°C + 336h /50°C

PERFORMANCE PROPRERTIES (typical)

- Color Dark grey
- Specific Gravity 1,6
- Hardness, Shore A 50
- Low temperature flexibility Passes

- **Adhesion - Peel strength (N/mm)**

	Alclad 2024	Stainless steel	Titanium
Standard cure	5	5	5,2
48 h / 60°C in B Fluide*	5,2	4	4,4
48 h / 60°C in 3% salt water	5,6	5,2	5,2

B Fluide* : Iso octane-toluene (70/30°)

100 % Cohesive

- **Tensile Strength and Elongation** :

	Tensile Strength	Ultimate Elongation
- Initial	2 MPa	200 %

- **Tear Strength**
  Alclad 2024 2 Mpa

- **Fungus Resistance** Non-nutrient

NOTE : The above application and performance property values are typical for the material, but are not intended for use in specifications or for acceptance inspection criteria because of variations in testing methods, conditions and configurations.

SURFACE PREPARATION

Part shall be cleaned with solvents to remove dirt, grease, and processing lubricants used in manufacturing.
Wash one small aera at a time, then dry with a clean cloth before solvent evaporates to prevent redeposition of oil, wax or other surface contaminents. To maintain a clean solvant supply, always pour the solvent on the washing cloth.

MIXING INSTRUCTIONS

Proper mixing and correct proportions are extremely important if optimum results are to be obtained. Mixing by experienced personnel at a central location is recommended.

CAUTION: Do not mix accelerator with compound until ready to use.

1° Thoroughly stir accelerator in its container until an even consistancy is obtained.

2° Thoroughly stir base compound in its container until an even consistancy is obtained.

3° Slowly stir the accelerator into the base compound and thoroughly mix approximately 7 to 10 minutes. Be sure to scrape the sides and bottom of the container in order to include all the compound in the mixture and to assure uniform blending. Scrape mixing paddle periodically to remove unmixed compound. Slow mixing by hand is recommanded.

Fractional Use of Unit :

When it is desired to use only part of the kit, after homogenization, remove the required quantity.
(§ Application Properties).

Semkit Two-Part Sealant Cartridges:

1° Wear safety glasses.

2° Hold cartridge and pull back dasher rod one fourth.

3° Pull back the dasher rod as injecting as proportionnaly as possible the contents accelerator into the base.

4° Mix material, rotate dasher rod 90° in aspiral clockwise motion; with each stroke turn the dasher rod 90°.

5° When two-parts are mixed thoroughly, pull dasher rod back to the neck of cartridge, grasp cartridge firmly at neck, unscrew dasher rod counterclockwise and remove.

6° Screw nozzle into cartridge, material is ready for extrusion.

For all informations, consult the Engeneering Services of LE JOINT FRANCAIS.

APPLICATION INSTRUCTIONS

Application life is the period of time that the mixed compound remains at a consistency suitable for application with injection or extrusion guns.

CURING

The lenght of the cure depends on the ambient temperatureand relative humidity.
The temperature/time relation ship is approximately the same for curing as it is for application life .
Low humidities may extend the cure several times.
Cure may hastened by applying heat up to 55° C.

CLEANING EQUIPEMENT

Equipment should be cleaned immediately after use with methylethylketone. Cured sealant on accessible portions of equipement will peeled off by hand.

STORAGE LIFE

The storage life of **PS 892 C** is 6 months when stored in the original, unopened containers at temperature below 25°C.

HEALTH PRECAUTIONS

PS 892 C is a safe material to handle when reasonable care is observed. Ordinary hygienic principles, such as washing the compound from hands before eating or smoking, should be observed. Avoid prolonged contact with skin, contact with open breaks in the skin, and ingestion. In case of contact with skin, wipe off excess then wash with soap and water. Obtain medical attention in case of extreme exposure or ingestion.

For additional health and safety information consult a
Material Safety Data Sheet
which is available upon request

GUARANTEED

We guarantee all our products against faulty materials or preparation. Our sole responsability shall be to replace, free of charge, those products which prove to be defective, the user being entitled to no indemnity for any reason whatsoever. All recommendations contained herein as to the choise of materials or of certain methods of operation are of an informative character and are based on tests and experiments we belive to be reliable and correct, but accuracy and completeness of such tests are not guaranteed and are not to be construed as a warranty, either express, or implied.

Neither our company, nor any of its collaborators shall be liable to the user for any injury, loss or damage directly or indirectly resulting from the use of, or inability to use, the products, which does not comply with the application instructions as specified in our information manual.

Recommendations or statements other than those contained in a written document signed by an officer of our company shall not be binding upon the company.