

CS 1900 Firewall Sealant

Chem Seal

Technical Bulletin
December 2010

PRODUCT DESCRIPTION

Meets MIL-S-38249 Class-B

CS 1900 is a compound for sealing firewall structures. It is elastomeric at operating temperatures from -65 deg F to 400 deg F and able to withstand flash temperatures of 2000 deg F.

SURFACE PREPARATION

To obtain good adhesion, the surfaces must be free of all traces of contamination. For detailed discussion of proper surface preparation, consult the SAE Aerospace Information Report AIR 4069. This document is available through SAE, 400 Commonwealth Avenue, Warrendale, PA 15096-0001.

MIXING INSTRUCTIONS

To 100 parts by weight of Part A add 2.5 parts by weight of Part B. Mix well to a uniform consistency. For material provided in two component injection kits follow the instructions printed on the packaging

APPLICATION

Pressure gun or spatula applies CS-1900. Thin CS-1900 after mixing with ketone solvents for brush application

STORAGE LIFE

The storage life of CS1900 is 1 year when stored in the original unopened containers at temperatures below 80°F. Some change in work life, viscosity and curing rate may occur during this period. However, such changes are slight and in no way affect the end performance of the product.

SAFETY

Read and understand the Material Safety Data Sheet (MSDS) associated with this material.

**Emergency Contact Chemtrec 800-424-9300
Outside North America 703-527-3887**

**Keep out of the reach of children
For industrial use only**

PACKAGING AVAILABILITY

Two component plastic cartridges

Pre measured can kits ½ Pint – 1 Gallon

Bulk 5 Gallon pails

Contact Flamemaster for specialized packaging.

Chem Seal Products

Manufactured By The Flamemaster Corporation
13576 Desmond Street, Pacoima, CA 91331-2315
Phone 818) 890-1401 *** Fax (818) 890-6001 www.flamemaster.com

Application properties

| | | |
|-----------------------|-----------------------|--------------|
| Color: Part A | Black | |
| Part B | Clear Amber Liquid | |
| Base viscosity | 10,000 - 12,000 poise | |
| Consistency: | Workable Paste | |
| Work life | Tack free | cure to 35 A |
| 2 hrs. | < 4 hrs. | < 60 hrs. |
| Slump (flow) | < 0.30 | |
| Mixing ratio (weight) | 100:2.5 | |
| Shelf Life | 6 months | |

Performance Properties

| | |
|--|------|
| Specific gravity | 1.33 |
| Nonvolatile content | 68% |
| Ultimate shore hardness | 80 A |
| Peel strength dry 100% cohesive, conditioned 14 days at 77F and 50% RH | |
| Aluminum QQ-A-250/4 | 12 |
| Stainless MIL-S-5059 | 14 |
| Peel strength dry 100% cohesive, conditioned 3 days at 400F | |
| Aluminum QQ-A-250/4 | 15 |
| Stainless MIL-S-5059 | 15 |
| Corrosion resistance 20 day immersion 3% SW 140F | Pass |
| Thermal rupture prior to and after 2000F flame exposure | Pass |
| Fluid resistance | Pass |
| Flame resistance 2000F 15 minutes no burn through self extinguish | Pass |
| Low Temperature flexibility -65F | Pass |

Application and performance properties are typical all tests conducted under controlled conditions. Reference: MIL-S-38249 Type I and AS5127 – AS5127/1 for requirements and procedures.

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 test 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 user assumes all risk liability resulting from his use of the product. Sellers and manufacturers sole responsibility shall be to replace that portion of the product of this manufacturer which proves to be defective. Warranty returns accepted only in their original unopened containers no warranty claims accepted for goods repackaged or altered. 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. Flamemaster does not warrant the performance of fuel tank sealants and coatings subjected to fluids or fuel other than those specified by the applicable specification. It is the responsibility of the user to determine the suitability for use utilizing the information contained in the applicable specification.