CS 2415 Aluminum Exterior Sealant

Chem Seal

Class B

Technical Bulletin
December 2010

PRODUCT DESCRIPTION
Meets Mil-S-38228, DMS 1819C, and Lockheed STM 40-006

CS 2415 recommended for sealing external seams, depressions and gaps on aircraft to yield weather tightness and achieve aerodynamic smoothness. CS 2415 is a non-flow material and may be utilized on vertical and overhead, as well as horizontal surfaces. CS 2415 is a Thixotropic, fuel resistant sealant for use on pressurized cabins.

A two component, polysulfide based, aluminum filled, non-flow, filleting material designed for Aircraft sealing. CS 2415 is based on Flamemaster technology, utilizing Permapol P-5 Polymers, an improved chemical modification of Thiokol LP* polymers. Permapol P-5 polymers are covered under U.S. Patent 4,623,711

SURFACE PREPARATION
Apply CS2415 only to a dry surface, free of dirt, oils or other contaminates

MIXING INSTRUCTIONS
The production process matches accelerator and base compounds to assure optimum performance characteristics. The accelerator package is a separate container, but the label designates by batch number which lot of accelerator is matched to which lot of base compound. Assure that the accelerator and the base compound are a designated "match" before the two components are mixed. Proper mixing of all two-component sealing compounds requires care to obtain a uniform, air free mix. Mechanical mixing is recommended for best results. However, mixing by hand is entirely satisfactory for small quantities. When material is to be mixed in the gallon or smaller sized unit, it is advisable to remove the container lip using a can opener

First stir the accelerator separately to assure even dispersion. Then add the accelerator to the base compound. Mix slowly with a paddle or low speed mixer (70-80 RPM), for approximately seven minutes, until obtaining a thorough blend. In order to insure proper dispersion; scrape paddle, bottom, and sides of container several times during mixing procedure. There is sufficient color contrast between the base and accelerator components; this is to provide a visual safeguard against incomplete mixing.

CURE
The rate of cure is affected by temperature and humidity. High temperature and high humidity accelerate the cure and low temperature and low humidity retard it. To hasten curing under adverse conditions, it is permissible to heat the applied compound with infrared lamps or by other convenient means. However, temperatures higher than 120 deg. F may cause sponging or bubbling of the uncured compound and should be avoided. Full cure is obtained in seven days at 77 deg. F and 50% R.H. *LP - is a trade name of Morton Thiokol

Application and Physical Properties

<table>
<thead>
<tr>
<th>Color:</th>
<th>Base Compound</th>
<th>Curing Agent</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Aluminum</td>
<td>Black</td>
</tr>
<tr>
<td>Viscosity-</td>
<td>Base Compound</td>
<td>Curing Agent</td>
</tr>
<tr>
<td>(Brookfield RVF)</td>
<td>12,000 Poises</td>
<td>Heavy Paste</td>
</tr>
<tr>
<td>Spindle #7, 2 RPM)</td>
<td></td>
<td>100:10 by weight</td>
</tr>
<tr>
<td>Curing Agent</td>
<td></td>
<td>Application Life</td>
</tr>
<tr>
<td>Mixing Ratio</td>
<td></td>
<td>2 hours minimum</td>
</tr>
<tr>
<td>Tack Free Time</td>
<td></td>
<td>&lt;than 24 hours</td>
</tr>
<tr>
<td>Cure Rate</td>
<td></td>
<td>72 hours</td>
</tr>
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APPLICATION
CS 2415 is applied with extrusion gun, putty knife or spatula. Satisfactory performance of the sealant depends on continuous contact between the compound and the sides of the joint; apply carefully, eliminate gaps, bubbles and voids. Whenever possible, fill seams and joints in a continuous operation without layering of the compound.

After application, the uncured sealant compound may be smoothed or tooled. Dipping of the brush or tool in water facilitates tooing. Excessive amounts of cured material may be sanded using #400 grit sandpaper. Application life is always measured at temperatures of 75°F and 50% relative humidity.

STORAGE LIFE
CS 2415 has a storage life of nine months when stored at temperatures below 80°F in the original unopened container. Minor variations may occur to the application properties.
CLEAN UP
Remove uncured CS 2415 from equipment and tools with solvent before the sealant cures. Remove cured material from tools and equipment by soaking and scrubbing with Polysulfide/Epoxy Stripper.

SAFETY
Before using CS2415, 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 AVAILIBILITY
Pre measured can kits ½ Pint – 1 Gallon
Bulk 5 Gallon pails and 50 Gallon drums
Sectional plastic its
Contact Flamemaster for specialized packaging

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