



# **CS 3201 Class B** AIRCRAFT SEALING COMPOUND

## Description

CS 3201 Class B was designed for sealing aircraft against the passage of air, liquids, and vapors. If using CS 3201 Class B in a fuel or oil tank, a protective top coating of AMS-S-4383, such as CS 3600, is necessary to ensure maximum service life.

- Two-component lead dioxide cured polysulfide
- Room temperature cure
- Good adhesion to a variety of aircraft substrates
- Excellent flexibility
- Resistant to a variety of aerospace fluids
- Does not craze acrylic
- Available in black or tan
- Cured material has a service temperature range of -65°F to 250°F (-54°C to 121°C).
- Uncured CS 3201 Class B is a thixotropic (low sag) material easily applied with an extrusion gun or spatula.

CS 3201 Class B was originally designed for MIL-S-7124. This specification was superseded by AMS-S-7124, but stabilized, so there is no active QPL. For information on other qualifications or the availability of modified products, contact Sales.

The following technical information and data are typical for the material but should not be used for specification or acceptance purposes. Testing was performed in accordance with AMS 5127/1.

## **Typical Performance Properties**

Cured 14 days at 77°F (25°C) and 50% relative humidity

Specific gravity (AS5127/1)	1.45
Ultimate hardness	50A
% Nonvolatile material	97%
Water solubility	3 % in distilled water
Low temperature flexibility (-60°F / -51°C)	Pass
Peel strength, dry	25 – 50 pli 110 – 220 N/25mm 100% cohesive failure
Shrinkage	6% max
Corrosion per AMS-S-7124	Pass
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## **Typical Application Properties**

At 77°F (25°C) and 50% relative humidity

Color		
Base	Black (for CS 3201 Black) White (for CS 3201 Tan)	
Curing agent	Brown	
Mixed	Black or Tan	
Mix ratio		
By weight	100:10 (base/curing agent)	
Base viscosity (Brookfield #7@ 2 rpm)	11,000 Poise (1100 Pa·s)	
Flow	< 0.2" (5 mm)	

	Minimum application time	Extrusion rate at application time (g/min)	Tack-free time (hours)	Hardness at 72 hours
B-1/2	30 minutes	15 - 80	< 6	30 - 40A
B-2	2 hours	15 - 50	< 24	30 - 40A

## **Surface Preparation**

To obtain good adhesion, surfaces must be free of all traces of oil, wax, grease, dirt or other contaminants. A progressive cleaning process is recommended. Use an appropriate solvent and lint-free clothes. Pour solvent on the cloth to keep the solvent supply clean. Clean a small area at a time and wipe the surface dry with a second clean cloth. See SAE AIR 4069 for additional information on surface preparation. For Socomore's full line of solvents and wipes used for aerospace sealant preparation, and their customer approvals, visit <u>www.Socomore.com</u>.

#### Storage

Unmixed CS 3201 Class B has a shelf life of at least 9 months from date of manufacture when stored below 80°F or below in the original, unopened package. Refrigerated shipping is not required, but storage above this temperature typically affects application properties before performance properties.

#### **Mixing Instructions**

CS 3201 Class B base and curing agents are matched and tested together; do not mix lots. Mix according to the indicated mix ratios; using the incorrect ratio can affect the sealant properties and voids the warranty. Do not thin the material with solvents. For additional information, see the FAQ on the Flamemaster website (www.flamemaster.com).



## Curing

The application, tack-free, and cure times are based on the standard conditions of 77°F (25°C) and 50% relative humidity. For information on the effects of temperature and humidity, as well as information on accelerated curing, see the FAQ on the Flamemaster website (www.flamemaster.com).

#### **Clean up**

Cured aerospace sealants are difficult to remove. Cleaning tools and other surfaces is best done when the material has not yet cured. For fresh material and tool cleaning use an appropriate solvent and lintfree cloth. Once the material has cured, use an approved chemical and/or plastic scraper to remove the sealant. For Socomore's full line of solvents, wipes, chemical sealant removers (SkyRestore), plastic scrapers (SkyScraper), and their customer approvals, visit <u>www.Socomore.com</u>.

### Packaging

CS 3201 Class B is available in injection kits and can kits. Bulk packaging and premix frozen (PMF) may be available; contact Sales.

#### **Health and Safety**

Before using this material, read and understand the Safety Data Sheet (SDS) as it includes information on health, physical, and environmental hazards, as well as handling precautions and first aid recommendations. SDSs are available upon request. Emergency Contact Chemtrec 800-424-9300 Outside North America 703-527-3887 Keep out of the reach of children For industrial use only

#### Warranty, Limited Remedy, and Disclaimer

All recommendations, statements, and technical data contained herein are based on tests or experience that we believe to be reliable and correct, but accuracy and completeness of such information are not guaranteed and are not to be construed as a warranty, either expressed or implied. Flamemaster does not warranty the performance of fuel tank sealants or coatings when subjected to fluids or fuels other than those specified by the applicable specification.

Users shall rely on their own information and tests to determine suitability of the product for the intended use and users assume all risk and liability resulting from their 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 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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#### This technical data sheet replaces and cancels the previous one.

The above details have been compiled to the best of our knowledge. They have, however, an indicative value only and we therefore make no warranties and assume no liability in connection with any use of this information, particularly if a third party's rights are affected by the use of our products. The above information has been compiled based upon tests carried out by SOCOMORE. All data is subject to change as SOCOMORE deems appropriate. The data given is not intended to substitute for any testing you must conduct in order to determine the suitability of the product for your particular purposes. Pictures are not contractual. Please check your local legislation applicable to the use of this product. Should you need any further information please contact us.