

CS 3201 Class A

AIRCRAFT SEALING COMPOUND

Technical Data Sheet

Description

CS 3201 Class A was designed for sealing aircraft against the passage of air, liquids, and vapors. If using CS 3201 Class A 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
- Cured material has a service temperature range of -65°F to 250°F (-54°C to 121°C).
- Uncured CS 3201 Class A is a thixotropic (low sag) material easily applied with an extrusion gun or spatula.

CS 3201 Class A was originally designed for MIL-S-7124. This specification was superseded by AMS-S-7124, but stabilized, so there is no active QPL. CS 3201 Class A does not have good unprimed adhesion to modern versions of TT-P-1757 primer, but adheres well to the unprimed Alodine surface. Otherwise, it meets the acceptance requirements of AMS-S-7124.

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)	1.51
Ultimate hardness	48A
% Nonvolatile material	88%
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

Typical Application Properties

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

Color	
Base	Black
Curing agent	Brown
Mixed	Black
Mix ratio	
By weight	100:7.5 (base/curing agent)
Base viscosity (Brookfield #7@ 2 rpm)	200 - 300 Poise (20 - 30 Pa·s)
Flow	< 0.2" (5 mm)

	Minimum application time	Tack-free time(hours)	Cure time to 35 - 40A
A-1/2	30 minutes	< 6	< 72 hours
A-2	2 hours	< 24	< 7 days

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 www.Socomore.com.

Storage

Unmixed CS 3201 Class A 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 A 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 lint-free 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 www.Socomore.com.

Packaging

CS 3201 Class A 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

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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.