CS 7707
NYLON EPOXY COATING

Technical Data Sheet

Description

CS 7707 is a nylon epoxy coating designed to protect both flexible and rigid substrates from Skydrol® 500 hydraulic fluid, fuels, oils, salt water, and ozone. The standard material is clear but an aluminized version is also available.

- Two-component nylon epoxy system
- Room temperature cure
- Flexible film with excellent adhesion to a variety of substrates.
- Pass low temperature flexibility test at -65°F (-54°C) with a 2.5" (6.4 cm) mandrel
- Mixed material may be applied by conventional methods: Air spray, airless spray, brush or dipping
- CS 7707 qualified to DPM 2389. DPM 2389-1 refers to a clear version; -2 is for the aluminized version.

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 DPM 2389 or AS5127/1.

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.

Mixing Instructions

CS 7707 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. For the aluminized version, add the aluminum powder after mixing Parts A and B together. For additional information, see the FAQ on the Flamemaster website (www.flamemaster.com).

Curing

Temperature and humidity affect the rate of cure. CS 7707 will achieve full cure in 3 to 5 days at 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).

Typical Application Properties

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

Color	
Base	Amber
Curing agent	Amber
Mixed	Amber (Aluminized version is silver)
Mix ratio	
By weight	100:6 (base/curing agent)
Base viscosity (Brookfield #1 at 20 rpm)	60 – 80 cps (0.06 – 0.08 Pa·s)
Mixed viscosity, #2 Zahn cup	25 – 35 seconds
Application life	>8 hours
Tack-free to touch	30 minutes, maximum
Full cure	3 days (5 days maximum)
% solids of mixture	16 – 18%

Clean up

Cured aerospace coatings 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.

Storage

Unmixed CS 7707 has a shelf life of at least 12 months from date of manufacture when stored below 80°F or below in the original, unopened package. Low temperatures may cause gelation. Consult Technical Service for advice on reversing gelation.

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www.flamemaster.com
www.socomore.com

Packaging

CS 7707 is available in quart and gallon kits. Bulk packaging 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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Skydrol® is a Solutia trademark

This technical data sheet replaces and cancels the previous one.