

CS 5500 Class B High Temperature Fuel Tank Sealant

Chem Seal

Technical Bulletin
January, 2002

PRODUCT DESCRIPTION meets AMS 3276, MIL-S-83430A Amendment 1, FMS 1044C Amendment 3, Type V

CS 5500 can be used in applications where temperatures of up to 360°F are encountered.

CS 5500 is a two part, high temperature resistant fuel tank and fuselage sealant based on 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. When cured CS 5500 is a flexible, resilient rubber which has excellent adhesion to aluminum, magnesium, titanium, steel and other materials.

Color: Base Compound	White
Curing Agent	Black
Viscosity:	
Base Compound	12,000 poises
Curing Agent	1,000 poises

Mixing Ratio by Weight 100:10

Mixing Ratio by Volume 100:8.2

Vertical Flow 0.3 inch

Application Life 2 hours -(also B-1/2 & B-6)

Tack Free 20 hours

Hardness at 72 Hours 45 shore A

Non-Volatile 97%

SURFACE PREPARATION

To obtain good adhesion, all traces of oil, wax, grease, dirt or other contamination must be removed. Wiping with a clean oil free solvent (Mil-C-38736 or MEK/Toluene) and cleaning a small area at a time and wiping the cleaned area with a clean rag before the solvent evaporates is usually sufficient. Maintain a clean solvent supply by pouring the solvent on the washing cloth. CS 5500 will adhere to most substrates, providing the area to be sealed is clean and dry.

*LP - is a trade name of Morton Thiokol

MIXING INSTRUCTIONS

Do not thin CS 5500 with solvents when mixing pre-measured kits. The entire amount of the Part A and Part B should be used. Thoroughly mix Part B in its container until a smooth paste is obtained. For mixing bulk materials, or small quantities, stir into 100 parts of Part A 10 part of Part B, by weight. Mix thoroughly for seven to ten minutes to obtain an even, streakless, uniform gray color. Scrape the sides and bottom of the mixing container and also scrape down the mixing tool several times to insure proper mixing. When using a mechanical mixer, use low speeds since a high-speed mixer will generate internal heat thereby reducing the application life. Violent stirring also entraps air in the mixed CS 5500.

APPLICATION

CS 5500 Class B may be applied with a pressure gun or spatula.

