

# CS 5547 Aircraft Windshields & Transparencies High temperature Sealant

## Chem Seal

*Technical Bulletin*  
Rev A June 2002

### PRODUCT DESCRIPTION

CS-5547

### 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 5547 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 5547 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 5547.

### APPLICATION

CS 5547 Class B may be applied with a pressure gun or spatula.

### STORAGE LIFE

The storage life of CS 5547 is one year minimum when stored at temperatures below 80°F in the original unopened containers. Some change in application life, viscosity and curing rate may occur during this period; however, such changes are slight and in no way affect the end performance of the product.

Application	Properties
<b>Color</b>	
Base compound A	Gray
Accelerator B	Black
<b>Mixing Ratio</b>	
Weight	100:10
Volume	
<b>Non volatile mixed</b>	97%
<b>Viscosity Brookfield</b>	12,000 poises
<b>Vertical flow (slump)</b>	<0.25 inch
<b>Stress crazing</b>	@4000 psi
Polycarbonate	Non-crazing
Acrylic	Non-crazing
<b>Corrosion</b>	Passes
<b>Fuel resistance</b>	Passes
Performance	Properties
<b>Color (mixed)</b>	Black
<b>Specific Gravity</b>	1.64
<b>Thermal rupture</b>	>10 psi @ 300F
<b>Hardness Shore (A)</b>	45 - 50
<b>Low temperature flex</b>	- 65 F
<b>Adhesive (peel)</b>	<b>100% cohesive</b>
7 day cure @ 75F	After weathering
Aluminum	35lbs/ inch
Stainless	35lbs/ inch
Titanium	35lbs/ inch
Polycarbonate **	35 lbs./ inch
Acrylic **	35 lbs./ inch
Glass	35 lbs./ inch

# CS 5547 High Temperature Low Density Sealant

## CLEANING OF EQUIPMENT

For clean up during use, and also to remove partially cured CS 5547 use CS 9900 cleaner. Cured CS 5547 will require a soaking period in epoxy polysulfide stripper.

## SAFETY

The uncured combined components may produce irritation following the contact with the skin. When handling CS 5547 avoid ingestion and all contact with the body especially open breaks in the skin. Always wash hands before eating or smoking. Obtain medical attention in case of extreme exposure or ingestion. For additional information see the Material Safety Data Sheet.

## PACKAGING

CS 5547 is packaged in the following kit sizes:

24 ea. per case	2 1/2 oz. and 6 oz. cartridges
12 ea. per case	Pint Kit
12 ea. per case	Quart Kit
4 ea. per case	Gallon Kit

CS 5547 is also available in 5-Gallon and 50 Gallon Drum Kits.

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Color	Gray
Specific Gravity:	
Base Compound	1.25
Curing Agent	1.92
Mixed	1.30
Hardness, Ultimate	60 REX

	Standard Cure	7 days	14 days
		@250°F	JRF/140°F
Tensile			
Strength	350 psi	460 psi	240 psi
Elongation	220 %	140 %	250 %
Peel Strength	14 days @ 77°F;	40 PLI	
	30 days Immersion @ 140°F/30 PLI		
	7 days @ 250°F	30 PLI	
Corrosion Resistance		Passes	
Low Temperature			
Flexibility		Passes	
Thermal Rupture		0.0 inch @ 300°F	
Hydrolytic Stability		50 Shore "A"	
Repairability		Excellent	
		(40 PLI/100% C.F.)	