CS 3210 Low Density Sealant

Chem Seal

Technical Bulletin August 2010

PRODUCT DESCRIPTION

Qualified STM 40-107F Class B

CS 3210 is a two-part, polysulfide based compound that cures at room temperature to a flexible, resilient, low-density rubber with excellent adhesion to aluminum treated and untreated, composites and numerous other substrates. Cured CS 3210 has resistance to effects of fuels, oils, salts and distilled water or weathering and will retain its flexibility at low temperatures. CS 3210 has a specific gravity of 1.00, which can result in substantial weight savings over conventional sealants.

SURFACE PREPARATION

To obtain good adhesion, remove all traces of oil, wax, grease, dirt, or other contamination. This is done by wiping with a clean oil-free solvent. Clean only small areas at one time and wipe dry with a clean cloth before the solvent evaporates. Maintain a clean solvent supply.

MIXING INSTRUCTIONS

Parts A and B are matched at the time of manufacture to provide optimum performance when cured. Assure that Parts A and B are combined at the recommended ratio printed on the container label. Do not thin CS 3210 prior to combining Parts A and B. Before combining parts A and B stir the Part B component until the contents of the container are uniform. Place all of the B component into the Part A container and continue stirring until a uniform gray color is achieved. There should be no white or black streaks in the properly blended material. Periodically scrape the sides and bottom of the container as well as the mixing tool to assure proper mixing. When using a mechanical mixer, avoid high speeds since the heat generated will reduce the application time of the mixed CS 3210. Violent stirring will also entrap air in the cured sealant. Mixing instructions for plastic injection kits are provided on the packaging. When mixing materials packaged in bulk or when only a small quantity is required, stir 12 parts by weight of the Part B component into 100 parts by weight of the Part A component. Be sure to stir the Part B prior to weighing out the required amount.

CURE

Specified application and cure schedules are based on the standard conditions of 77°F and 50% relative humidity. Increased temperature and relative humidity will reduce the work life and speed up the cure while reduced temperatures and relative humidity will extend the work life and slow the cure. Cure may be accelerated by heating up to 120°F. However care must be exercised to avoid the entrapment of solvent when heat is applied.

I	Application Properties				
I	Color: Base compour	nd	Part A	_	
I	Curing Agent		Part B Black		
I	Non-volatile Content,	,		90%	
I	Viscosity: Base Com		9000 P	oises	
	Brookfield Spindle #7 @2 rpm) Mixing Ratio (by weight)		100:12		
		cation Life, Tack Free, & Cure Time deg. F and 50% Relative Humidity)			
	Application	on Life	Tack I		
	B-1/2 1/2 hour B-2 2 hours		10Hours 24 Hours		
I		Curing rate			
	D 440	0. 0- 00	•		
I	B-1/2	Shore 35 - 60	30		
۱	B-2	Shore 35 - 60	48	5	

Technical Properties				
Color: Mixed Specific Gravity Hardness, Shore A Tensile Strength Elongation Temperature Range Low Temperature Flexibility Fungus Resistance Adhesion (Ibs/in of width Standard Cure 3% Salt Water Repair Ability (per Mil-S-8802) Corrosion Resistance Resistance to Fuel JRF 7 days @ 140 F	Black 1.00 50 180 PSI 220% -65 F to +250 F -65 F Non-nutrient 25 PIW 33 PIW Excellent Excellent Excellent 30 PIW			
Fluid Resistance: water, alcohol, petroleum and synthetic lubrication oils, petroleum based hydraulic fluids Application and technical properties usir in STM40-104 (4.8 Test Methods)	Excellent ng test methods contained			

CS 3210 Low Density Sealant

Chem Seal

Technical Bulletin August 2010

APPLICATION

The work life of CS 3210 is indicated by the number following the class designation and varies from *1/4 hour to 4 hours. Work life is The work life of CS 3210 is indicated by the number following the class designation and varies from *1/4 hour to 4 hours. Work life is the minimum amount of time the material will maintain its application properties.

SAFETY

Read and understand the Material Safety Data Sheet (MSDS) associated with this product prior to using the material.

Emergency Contact Chemtrec 800-424-9300 Outside North America 703-527-3887

> Keep out of the reach of children For industrial use only

CLEAN UP

For surface preparation as well as removing fresh CS 3210, you may use alcohol or aromatic solvents. Recommended are commercial polysulfide / epoxy strippers for removal of cured CS 3210

STORAGE / SHELF LIFE

The storage life of CS 3210 is nine months when stored in the original unopened containers at temperatures below 80°F. Some change in work 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.

PACKAGING AVAILIBILITY

Two component plastic cartridges Pre measured can kits ½ Pint - 1 Gallon Bulk 5 Gallon pails and 50 Gallon drums Pre-mixed and frozen cartridges Contact Flamemaster for specialized packaging

All recommendations, statements, and technical data contained herein are based on tests we believe to be reliable and correct, but accuracy and completeness of said tests 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. User shall rely on his own information and tests to determine suitability of the product for the intended use and user assumes all risk and liability resulting from his use of the product. Sellers and manufacturers 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.