

CS 3210 Low Density Sealant

Chem Seal

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PRODUCT DESCRIPTION - STM 40-107E

CS 3210 is a two-part, polysulfide based compound which 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 outstanding 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.

Color: Base compound	Part A	Gray
Curing Agent	Part B	Black
Non-volatile Content, Minimum		90%
Viscosity: Base Compound (Brookfield Spindle #7 @2 rpm)		300 Poises
Mixing Ratio (by weight)		100:10

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.

Application Life, Tack Free, & Cure Time (77 deg. F and 50% Relative Humidity)			
Application Life	Tack Free Time	Cure Time	35 Shore
A-1/2	1/2 hour	10 Hours	24 hours
A-2	2 hours	24 Hours	48 Hours

MIXING INSTRUCTIONS

When mixing pre-packaged kits, the entire contents of the base component (Part A) and curing agent (Part B) should be used. For small quantities, mix 100 parts by weight of Part A to 10 parts by weight of Part B.

Accelerator and base compound are carefully matched in production for optimum performance characteristics. Care should be taken to assure that the accelerator packaged with a given compound isn't separated and used with a different base compound. The lip of Part A container should be removed to facilitate mixing. Next, stir Part B in its original container until it is homogenous. Add Part B to Part A and mix thoroughly 7 to 10 minutes or until uniform in color. Scrape sides and bottom of the container to assure a complete mix. CS 3210 may be mixed by hand or with a mechanical mixer. When using a mechanical mixer, use low speeds, since high speeds will generate internal heat and reduce application life.

APPLICATION

CS 3210 may be applied with a pressure gun or a spatula within the specified application life. Specified application lives are based on the standard condition of 77°F and 50% relative humidity. Higher humidity will reduce the application life. Lower temperatures or lower humidity will extend application life. For every 18°F rise the application is reduced by one half; for every 18°F drop, it is doubled.

CURE

The cure period is dependent on the application life, temperature, and relative humidity. Increased temperature and increased relative humidity will speed cure. Reduced temperature and reduced relative humidity will slow cure. Cure may be accelerated by heating up to 140°F.

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STORAGE LIFE

The storage life of CS 3210 is nine months 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 effect the end performance of the product.

CLEAN UP

Tools and equipment may be cleaned prior to cure by the use of volume to volume ketone/aromatic cleaner. Cured CS 3210 may be removed by soaking in polysulfide stripper.

SAFETY

Refer to the applicable Material Safety Data Sheet prior to use of this product. Avoid prolonged contact and wash with soap and water prior to eating and/or smoking.

PACKAGING

CS 3210 is packaged in the following kit sizes:

24 ea. per case 6 oz. and 2 1/2 ounce sectionalized cartridges

12 ea. per case Pint Kits

12 ea. per case Quart Kits

4 ea. per case Gallon Kits

Also available in 5-Gallon and 50 Gallon Drum Kits

Color: Mixed	Black
Specific Gravity	1.00
Hardness, Shore A	50
Tensile Strength	180 PSI
Elongation	220%
Temperature Range	-65°F to +250°F
Low Temperature	-65°F
Flexibility	
Fungus Resistance	Non-nutrient
Adhesion (lbs/in of width)	
Standard Cure	25 PIW
3% Salt Water	33 PIW
Repair Ability	Excellent
(per Mil-S-8802)	
Corrosion Resistance	Excellent
Resistance to Fuel	Excellent
JRF 7 days @ 140°F	30 PIW
Fluid Resistance	Excellent
Resistance to water, alcohol, petroleum and synthetic lubrication oils and petroleum based hydraulic fluids.	

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 warrant, either expressed or implied. 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. Seller's and manufacturer's 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 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.