

CS 2305 Fuel and Water Resistant Coating

Chem Seal

Pour in Place Dispenser Liner

Technical Bulletin

September 2013

PRODUCT DESCRIPTION

CS 2305 is recommended as a barrier coating effective with crude oils, fuel oil, diesel oil, jet fuel, kerosene and gasoline this coating is used extensively in tank farms, refineries and oil fields, marine tankers and cargo vessels. Suitable in all other areas subject to contact with fuels lubricants, oils, water and/or weathering.

CS 2305 is a two-part polysulfide base compound, which cures at room temperature to a flexible, resilient rubber. CS 2305 protects surfaces against the ever-present problem of corrosion.

When mixed, brush or spray CS-2305 onto surfaces requiring protection. After curing this material is resistant to the degrading action of sulfur bearing fuels, and provides excellent resistance to salt, fresh, and distilled water. Qualified to EPA File No. EQ-283 (Florida)

SURFACE PREPARATION

To obtain good adhesion, the surfaces must be free of all traces of mill scale, rust paint, oil, wax, grease, dirt or other contamination. Abrasive grit blasting, high-pressure water blasting or other methods sufficient to remove surface contaminate. Apply CS 2305 only to a dry surface.

MIXING INSTRUCTIONS

Chem Seal matches CS 2305 Parts A and B at the time of manufacture to provide optimum performance when cured. Assure that Parts A and B are combined as recommended on the container label. Prior to combining with the Part A component, stir the Part B component until the contents of the container are uniform. Place the entire 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 2305. Violent stirring will also entrap air in the cured sealant.

When mixing materials packaged in bulk or when only a small quantity is required, stir 10 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. When using solvent to adjust the viscosity add solvent after combining Part A and B.

Physical and Application Properties are Typical

<u>Application Properties</u>	
Color: Base Compound	<u>Class B</u> off-white
Curing Agent	Black
Mixed	Gray
Mixing Ratio (by weight)	100:10
(by volume)	100:8.3
Solids by weight	90%
Flash Point	75 ⁰ F (C.O.C.)
Recommended Solvent	toluene
Coverage (96 oz gallon kit) based on 16 mil film thickness	50 sq./ft
<u>Physical Properties</u>	
Ultimate Elongation	350%
Ultimate Tensile Strength	300 PSI
Adhesion to grit blasted steel	35 lb./inch
Peel Strength	
70 days JP4 at 140 ⁰ F	20 lb/inch
70 days JP4 and Salt Water at 130 ⁰ F	20 lb/inch
Excellent no rusting or loss of adhesion	
All samples failed cohesively at the values noted. There were no adhesion failures	
Test procedures AS5127A AS5127/1A. Test results are typical and individual batches may vary within the specification requirements.	

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.

STORAGE LIFE

The storage life of CS 2305 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.

Chem Seal Products

Manufactured By The Flamemaster Corporation

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WORK LIFE

The number following the class designation indicates the work life of CS2305 and varies from 1/4 hour to 4 hours.

APPLICATION

The recommended dry film thickness is 80-mil. Apply approximately 30-mil per coat in a 3-coat operation. When applying multiple coats apply additional coats when the base coat has cured sufficiently to withstand the weight of the additional coats without sag or slump.

CLEAN UP

For surface preparation as well as removing fresh CS 2305, use MEK or solvents. Cured CS 2305 will require a soaking period in a commercial epoxy/ polysulfide stripper for satisfactory removal.

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 deg. F

STORAGE LIFE

The storage life of CS 2305 is nine months when stored at temperatures below 80 deg. 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. Should a skin appear on the base compound, simply remove and discard the remaining material may then be mixed normally

SAFETY

Before using CS2305, read and understand the Material Safety Data Sheet (MSDS) associated with this martial.

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

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

PACKAGING AVAILABILITY

Pre measured can kits ½ Pint – 1 Gallon

Bulk 5 Gallon pails and 50 Gallon drums

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.