CS 2727 Flexible Epoxy Joint Sealer

Chem Seal

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PRODUCT DESCRIPTION meets Air Force Spec. U.S.A.F. QPL A.F.B.M.D. Letter 12/24/59 (WDFN) U.S.A.F.

The United States Air Force Ballistic Missile Division approves CS 2727 for sealing concrete joints located in liquid oxygen (LOX) spillage areas on missile launch facilities.

CS 2727 is a two component, flexible epoxy compound which is easily applied and cures at ambient temperature with excellent adhesion to concrete, wood, and other materials without a primer. CS 2727 withstands the LOX impact test and has excellent resistance to water, fuels, chemicals, and extreme weathering.

SURFACE PREPARATION

The surfaces to which CS 2727 is applied must be clean and free of dirt, grease, wax, bondbreakers, rust, paint, and other surface contamination. To remove dust, alkalis, and some paints. Concrete can is etched with 5-10% muriatic acid (commercial Hydrochloric acid) The etched surface must be thoroughly neutralized with a basic wash such as household ammonia. Sandblasting, wire brushing or commercial concrete cleaners may also clean contaminated surfaces.

Application properties	
Color	
Base compound	white
Curing agent	Clear-brown
Cured material	Off-white
Mixing ratio	
Weight	100 : 20
Volume	100 : 27
Viscosity #7 spindle @ 2 RPM	150-200 poises
Solids content	99 %
Application time (work life)	15 min
Tack free time	6 hours
Cure to shore A 30	72 hours
Cured material properties	
Coverage 173 inch ³ / gallon kit (57 linear	
feet) .250" X 1.00" joint	
Hardness Shore A	80 full cure
Specific gravity	1.35
Elongation	90 %
Tensile strength	370 psi
Adhesion to concrete and wood	excellent
Shrinkage	negligible
Resistance to fuel & water	excellent

MIXING INSTRUCTIONS

CS 2727 has a limited application life. Do not mix the kit components until the surfaces have been prepared and the material is ready for use. CS 2727 comes packaged in kit form with premeasured amounts of base compound and curing agent. Bring the temperature of the kit to 70°F - 80°F before mixing. Mix all of the two components together thoroughly either by hand or with a mechanical mixer.

CURE

CS 2727 cures to a 50 Shore (A) in 72 hours at 77°F. An accelerated cure is possible with the application of heat. (Do not exceed 120°F.)

CLEANING OF EQUIPMENT

Use CS-9900 cleaner, thinner to remove uncured CS 2727 from equipment.

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SAFETY

CS 2727 may produce allergic reactions in some persons. Persons handling this material should avoid skin contact, using gloves or protective creams. Ventilation is recommended if the material is being used in an enclosed area. Consult a physician should allergic symptoms develop. Refer to the applicable Material Safety Data Sheet before using this product.

PACKAGING

CS 2727 is packaged in the following kit sizes:

16 ea. per case Quart Kits 4 ea. per case Gallon Kits

Refer to the applicable Material Safety Data Sheet prior to using this product.

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 relay 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 manufacturers sole responsibility shall be to replace that portion of the product of this manufacturer that 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.