

CS 91 Epoxy Sealing Compound

Chem Seal

TECHNICAL BULLETIN

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PRODUCT DESCRIPTION meets STM 40-601

CS 91 is a 100% Solids, Modified Epoxy sealing compound suitable for sealing and moisture proofing adhesive bonded structures when applied by injection, spatula or brushing. CS 91 consists of two parts, a base compound and a catalyst which when mixed together cure at ordinary room temperature to a high strength resilient sealing compound. CS 91 is available in three types:

TYPE I	BRUSH CONSISTENCY - LOW VISCOSITY	Part A 20 to 100 Poises Part B 100 to 200 Poises
TYPE II	POUR CONSISTENCY - MEDIUM VISCOSITY	Part A 200 to 400 Poises Part B 75 to 200 Poises
TYPE III	NON-SAG CONSISTENCY - HIGH VISCOSITY	Part A 30,000 to 50,000 poises Part B 6,000 to 16,000 poises

SURFACE PREPARATION

Aluminum surfaces should be sanded and free of oil, grease and other contaminants before application of CS 91.

MIXING INSTRUCTIONS

CS 91 is supplied in two components consisting of a base compound Part A and a catalyst Part B. The catalyst, Part B, is added to the base compound, Part A, and immediately mixed until no streaks of unmixed base compound or catalyst are visible. The temperature during mixing should be below 75°F, as higher temperatures would reduce the application life of the mixture.

STORAGE LIFE

CS 91 may be stored for 9 months below 80°F, in the original unopened containers, without deterioration of the performance of the cured material.

PACKAGING

CS 91 is packaged in the following kit sizes:

12 ea. per case	Pint Kits
12 ea. per case	Quart Kits
4 ea. per case	Gallon Kits

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Characteristics

Color			
Part A	White		
Part B	Off white to pink		
Application Life	1 1/2 Hours minimum		
	When mixed in 200 g quantities		
Tack Free Time	20 hours at 77 deg. F and 50% relative humidity		
Flow	Type III, less than 0.75 inches		
Mix Ratio			
Type I	100:80 by weight		
Type II	100:70 by weight		
Type III	100:30 by weight		
Immersion Medium	At 77 deg.F	At 140 deg.F	Results
Water	6 Months	6 Months	No Deterioration
Salt Water	6 Months	6 Months	No Deterioration
Concentrated	6 Months		No Deterioration
Hydrochloric acid 35%			
17% Aqueous Sulfuric Acid	6 Months	3 Months	No Deterioration
10% Aqueous Sulfuric Acid	3 Months	3 Months	No Deterioration
Phosphoric Acid	3 Months		No Deterioration
25% Caustic Acid	6 Months	3 Months	No Deterioration
27% Aqueous Ammonia	6 Months		No Deterioration
42% Ferric Chloride	3 Months		No Deterioration
Gasoline	6 Months	3 Months	No Deterioration
Jet Fuel	6 Months	3 Months	No Deterioration
Skydrol 500	2 Months	1 Month	No Deterioration

Refer to the applicable material safety data sheet before use of 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 warranty, 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 the use of this product. Seller's 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.