

ConSeal™ CS-1500

Rapid-Cure, Elastomeric Sealant



Solvent Free Elastomeric Sealant for Precast Concrete Structures

Applications

Designed for use in original construction and for repairs that are subject to structural movement: Expansion and Control Joints, Perimeter Caulk Joints, Entry Way Steps, Precast Concrete Panel Joints, Copings, Risers and Tilt-Wall Joints, Bunker Silos, Septic Tanks and Manure Pits.

Physical Properties & Features

Property	Typical Value	Test Method
Cure System	Hybrid, Moisture Cure	
Cure Rate (77°F at 50% Relative Humidity)	1/8" per 40 hours	
Gun Grade	Zero Slump	ASTM C-679
Movement Capability	±25%	ASTM C-719
Tensile Strength	225 psi	ASTM D-412
Shear Strength	150 psi	ASTM D-1002
Elongation	450-500%	ASTM D-412
Adhesion to Concrete (Clean, Dry)	480 psi, cohesive failure	ASTM D-4541, Elcometer
Shore A, Hardness	46	ASTM D-661
UV Stability, Accelerated Weathering	UV-A, No Change (2,000 hours)	OUV Weatherometer
VOC Content	18 grams/liter	
Shrinkage	No measureable shrinkage after 14 days	
Service Temperature	-75°F to 220°F (-60°C to 107°C), continuous service	
Application Ambient Temperature	34°F to 130°F (1°C to 55°C)	
Application Surface Temperature	34°F to 95°F (1°C to 35°C)	

Features

- Finish: Gray, Mildew Resistant, Rubber
- Solvent & Isocyanate Free, 100% solids, will not shrink.
- Tack free skin is formed in 40 minutes (@ 75°F / 23°C)
- Full cure takes place in 24 to 48 hours (service coats < 100 mils).
- Exhibits flexible, resilient rubber that adheres to a wide variety of substrates including Kynar 500® PVDF.
- Excellent weatherability when exposed to: Ultraviolet Radiation, Rain, Infrared Radiation, & Atmospheric Hydrocarbons.
- CS-1500 can be painted with emulsion or synthetic enamel paints.
- Unaffected by continuous immersion in water and most dilute acids. Limited service in alkaline and hydrocarbon solutions. See Chemical Resistance Chart for details.
- Superior adhesion to most construction materials, including:
Concrete, Metal, Fiberglass, Plastic, PVC, Glass, Aluminum and Wood
Contact Concrete Sealants, Inc. for additional application possibilities.

KEEP OUT OF REACH OF CHILDREN

Green Standards

- LEED 2009 for New Construction and Major Renovations: Low Emitting materials (Section 4.1) 1 Point
- NAHB Model Green Home Building Guidelines: 5 Global Impact Points
- VOC Content at 240°F: less than 19 grams/liter (including water), ASTM D2369, EPA Method 24

Don't Just Seal It, ConSeal It!

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Performance Standards

- ASTM C-920, Type S, Grade NS, Class 25, Uses NT, T, M, G, A, and O.
- Federal Specification TT-S-00230-C Type II, Class A.
- Corps of Engineers CRD-C-541, Type II, Class A.
- Canadian Standards Board CAN 19, 13-M82.
- SWR Institute Validated (Sealant Waterproofing and Restoration).
- AAMA 802.3-08 Type II, AAMA 803.3-08 Type I, and AAMA 805.2-08 Group C.
- Meets requirements of California Regs: BAAQMD, CARB, and SCAQMD.
- Conforms to: OTC Rule for Sealants and Caulks, California Proposition 65, & USDA Requirements for Non-food Contact.

Installation & Storage

Surface Preparation

Concrete: Surface should be free of form release, curing compounds, sealers, loose debris or other contaminants. Completely remove previous coatings or sealants; this may require abrasion of the surface with steel wool or fine emery paper during preparation. Sand blasting, power washing, wire brushing, or other appropriate cleaning techniques can be utilized. Surface must be clean and dry prior to application. **Make sure the surface is free of frost.**

Note: Contact Concrete Sealants, Inc. for surface preparation and use of CS-1500 on additional substrates.

DO NOT USE petroleum solvents such as Mineral Spirits or Xylene for surface preparation.

Priming

In most instances, CS-1500 will not require a primer. However, certain applications or substrates may require a primer to ensure a long lasting bond and weatherproof seal. It is the applicator's responsibility to determine the need for a primer.

Note: When necessary, contact Concrete Sealants, Inc. for recommended primers for CS-1500.

Application Instructions

Maintain CS-1500 at room temperature (~70°F) before applying to ensure easy application. A clean, dry, sound and uncontaminated surface is mandatory. CS-1500 may be factory or field applied to seal various construction components. CS-1500 should be worked into rough surfaces to optimize surface contact. CS-1500 is not to be installed in ratios where joint depth is greater than half of the width. CS-1500 is not designed to bridge gaps larger than 1¼" or penetrate into joint depth further than ½". The use of a backer rod may be necessary in some applications. If using to fill cracks, avoid air entrapment by filling void with continuous bead of CS-1500. Tooling techniques using solvents or soapy solutions are not recommended. Tools and surfaces with wet sealant can be cleaned using a solvent such as alcohol. Cured CS-1500 should be removed mechanically.

Packaging & Storage

Available in 10.3-ounce cartridges & 5-gallon pails.
Shelf Life: 12 months from manufacture date when stored in cool, dry area. Elevated temperatures (>100°F) may reduce shelf life.

Coverage & Full Cure Rates

10.3-ounce cartridges: ½" diameter bead covers 7.6 linear feet.
Full Cure (77°F at 50% Relative Humidity): 4 Days
5-gallon pails: 50 square feet per gallon at 30 mils coat.
Full Cure (77°F at 50% Relative Humidity): 24 Hours

Limited Warranty

This information is presented in good faith, but we cannot anticipate all conditions under which this information and our products, or the products of other manufactures in combination with our products, may be used. We accept no responsibility for results obtained by the application of this information or the safety and suitability of our products, either alone or in combination with other products. Users are advised to make their own tests to determine the safety and suitability of each such product or product combinations for their own purposes. It is the **users' responsibility** to satisfy himself as to the suitability and completeness of such information for this own particular use. We sell this product without warranty, and buyers and users assume all responsibility and liability for loss or damage arising from the handling and use of this product, whether used alone or in combination with other products.

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