

## ASTM C836 Compliant Solvent-Free, Waterproofing Membrane

### APPLICATIONS

For use on concrete structures, including foundations, box culverts, manhole risers, lift stations, septic tanks, utility vaults, burial vaults, vertical panel structures, bunker silos, concrete structure patching and grouting. Additional uses include some metal, fiberglass and plastic applications. **Not intended for expansion joints or joints that move.**



### PERFORMANCE PROPERTIES

- Finish: Semi-Gloss, Elastomeric Rubber
- Colors: Black, Dark Grey, and White
- Solvent & Isocyanate Free, 100% Solids, Will Not Shrink
- California Proposition 65 compliant
- Meets ASTM C836 Requirements
- No degradation in 0.5 pH sulfuric acid immersion per - (ASTM C1898)
- Positive waterproofing capabilities up to 100 psi - (ASTM D5385)
- Negative waterproofing capabilities up to 4 psi - (ASTM D7088)
- Thermal shock resistant, elastomeric rubber membrane.
- Can be applied with brush, roller, trowel, sprayer or squeegee.
- Tack free in less than 90 minutes. Paintable.
- Can be used in confined spaces without respiratory protection. See Safety Data Sheet (SDS) for details.
- Indoor/outdoor application
- Superior Adhesion to most construction materials, including: Concrete, Metal, Fiberglass, Plastic, PVC, Glass, Aluminum, and Wood.

### PHYSICAL PROPERTIES

<b>Property</b>	<b>CS-1800 Value</b>
Cure System:	Hybrid, Moisture Cure
VOC Content:	14.2 grams/liter
Viscosity	210,000-390,000 CPS. (Brookfield Helipath)
Cure Rate:	1/8" every 24 hours (77°F at 50% Relative Humidity)

**Coverage Rate** 50 ft<sup>2</sup>/gallon per 30 mils coat

### PERFORMANCE CHARACTERISTICS

Property	CS-1800 Value	Test Method
Shear Strength	132 psi	ASTM D1002
Tensile Strength	113 psi	ASTM D412
Elongation	535%	ASTM D412
Adhesion to Concrete (Clean, Dry)	33 pli, cohesive failure	ASTM C794
Shore OO, Hardness	67	ASTM C2240
Shrinkage	No measurable shrinkage after 14 days	
Service Temperature	-40°F to 225°F (-40°C to 104°C), continuous service	
Application Ambient Temperature	40°F to 130°F (4°C to 55°C)	
Application Surface Temperature	40°F to 130°F (4°C to 55°C)	
UV Stability, Accelerated	UV-A, No Change (13,000 hours)	QUV

### APPROXIMATE CURING SCHEDULE

Surface Temp. & 50% Relative Humidity	Dry to Touch	Min. Recoat Time	Service Ready
50° (10°C)	90 Minutes	5 Hours	72 Hours
75° (24°C)	90 Minutes	4 Hours	72 Hours
90° (32°C)	90 Minutes	4 Hours	72 Hours

Curing schedule based on 40 mils applied to clean, dry concrete. Consider strength of skin layer prior to recoating.

**DO NOT USE PETROLEUM SOLVENTS SUCH AS MINERAL SPIRITS OR XYLENE FOR SURFACE PREPARATION.**

### DIRECTIONS FOR USE

#### Surface Preparation:

**Concrete:** Surface must be free of form release, curing compounds, sealers, loose debris or other contaminants. Sand blasting, power washing, wire brushing, or other appropriate cleaning techniques can be utilized. Dry all visible and standing water prior to applying CS-1800. Make sure the surface is free of frost. **Metal:** Surface must be free of loose debris or other contaminants. Sand blasting, power washing, wire brushing, or other appropriate cleaning techniques can be utilized. Dry all visible and standing water prior to applying CS-1800. **Fiberglass/Plastic:** Surface must be free of form release, loose debris or other contaminants. Sand blasting, power washing, wire brushing, or other appropriate cleaning techniques can be utilized. Dry all visible and standing water prior to applying CS-1800.

**Priming:** For applications with continuous water immersion ConSeal recommends using a surface primer. ConSeal CS-80 and ConSeal CS-85 are specifically designed for ConSeal's elastomeric sealants.

**Application Instructions:** Maintain CS-1800 at room temperature (~70°F) before applying to ensure easy application. Utilizing a brush, roller, trowel, or squeegee; apply CS-1800 onto the prepared surface at the desired millage. Spread rate: 50 sq. ft./gal. per 30 mils coat (nominal). If a second coat is necessary, apply as soon as possible. When recoating ensure the skin layer is clean, dry, and has met curing requirements.

**Packaging & Storage:** Available in 2-gallon pails – 56 pails per pallet. 12-month shelf life from manufacture date when stored in a cool, dry area. Elevated temperatures > 100°F may reduce shelf life. Shelf life after opening is 6-month maximum, less manufacture shelf life. Remove top skin layer. Product consistency may thicken.

#### 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 manufacturers 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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CONCRETE SEALANTS, INC. | 9325 STATE ROUTE 201, TIPP CITY, OH 45371, USA | [WWW.CONSEAL.COM](http://WWW.CONSEAL.COM)

USA CANADA +1.800.332.7325 INTERNATIONAL +1.937.845.8776

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