

*Don't Just Seal It, ConSeal It!*

### 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
- Positive and negative waterproofing capabilities up to 100 psi - (ASTM D5385)
- Thermal shock resistant, elastomeric rubber membrane.
- Can be applied with brush, roller, trowel 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

Property	CS-1800 Value	Test Method
Cure System	Hybrid, Moisture Cure	
VOC Content	14.2 grams/liter	
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)	

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

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

**Priming:** For applications with continuous water immersion ConSeal recommends using a surface primer. ConSeal CS-80 is 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

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