

Solvent-Free, Hydrophilic Elastomeric Sealant for Concrete Structures



PRODUCT APPLICATIONS

Designed for use in cold joints, precast joints and for use as a bedding adhesive for hydrophilic waterstops such as CS-5000. CS-1900 can be used in deep construction applications such as: tunnels, vent shafts and dams. CS-1900 can also be used in more common concrete structures that require a waterstop including but not limited to manholes, box culverts, containment structures, concrete slabs or foundation joints, wall or floor penetrations, water and wastewater structures and many more.

SEALING PROPERTIES

- Finish: Blue, Elastomeric Rubber.
- Solvent & Isocyanate Free, 100% solids, will not shrink.
- California Proposition 65 compliant.
- Tack free skin formed in 60 minutes (77°F (25°C) at 50% Relative Humidity)
- Full cure takes place in 24 to 48 hours for 1/4" beads and smaller.
- Excellent weatherability when exposed to: Ultraviolet Radiation, Rain, Infrared Radiation, and Atmospheric Hydrocarbons.
- Superior adhesion to most construction materials, including: Concrete, Metal, Fiberglass, Many Plastics, PVC, Glass, Aluminum, and Wood.

PERFORMANCE CHARACTERISTICS

Property	Test Method	CS-1900
Cure System		Hybrid, Moisture Cure
VOC Content		20.6 grams/liter
Cure Rate		1/8" every 24 hours (77°F (25°C) at 50% Relative Humidity)
Gun Grade	ASTM C639	Zero Slump

PERFORMANCE CHARACTERISTICS

Description	Test Method	CS-1900
Tensile Strength	ASTM D412	159 psi
Shear Strength	ASTM D1002	188 psi
Elongation	ASTM D412	185%
Adhesion to Primed Concrete (Clean, Dry)	ASTM C794	30 pli, cohesive failure
Shore A, Hardness	ASTM C661	35
UV Stability, Accelerated Weathering	QUV Weatherometer	UV-A, No Change (2,000 hours)
Shrinkage		No measurable shrinkage after 14 days
Service Temperature:		-40°F to 220°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)
Hydrophilic Expansion (Cured film)		200% after 48 hours in deionized water

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

DIRECTIONS FOR USE

Surface Preparation: The concrete must be clean and free from dust, dirt, grease and debris before application of CS-1900. Inspect surface for soundness. When surface is clean, sound and dry proceed with using the CS-1900.

Note: Make sure the surface is free from frost prior to application.

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

Application: Maintain CS-1900 at room temperature before applying to ensure easy application. CS-1900 may be factory or field applied to seal various construction components. Work CS-1900 into rough surfaces to optimize surface contact. If using to fill cracks, avoid air entrapment when filling void with continuous bead of CS-1900.

Packaging and Storage: Available in 10.1-fl. oz. cartridge (298mL), 20.2-fl. oz. sausages (600mL), and 5-gallon pails. 9-month shelf life from manufacture date when stored in a cool, dry area. Elevated temperatures >100°F (37°C) may reduce shelf life.

Coverage and Full Cure Rates: 10.1-ounce cartridges: 1/2" diameter bead covers 7.5 linear feet. Full cure for 1/4" bead is 48 hours (77°F (25°C) at 50% Relative Humidity).

LIMITED WARRANTY

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CONCRETE SEALANTS, INC. | 9325 STATE ROUTE 201, TIPP CITY, OH 45371, USA | WWW.CONSEAL.COM

USA | CANADA | +1.800.332.7325 | INTERNATIONAL | +1.937.845.8776

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