

Solvent-Free, Hydrophilic Elastomeric Sealant for Concrete Structures

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.



PERFORMANCE PROPERTIES

Features

- 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 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.

PHYSICAL PROPERTIES

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

PERFORMANCE CHARACTERISTICS

Property	CS-1900 Value	Test Method
Tensile Strength	159 psi	ASTM D412
Shear Strength	188 psi	ASTM D1002
Elongation	185%	ASTM D412
Adhesion to Primed Concrete (Clean, Dry)	30 pli, cohesive failure	ASTM D794
Shore A, Hardness	35	ASTM D661
UV Stability, Accelerated Weathering	UV-A, No Change (2,000 hours)	QUV
Shrinkage	No measurable shrinkage after 14 days	Weatherometer
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 for 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), 28.5-fl. oz. cartridges (842mL) and 5-gallon pails. 9-month shelf life from manufacture date when stored in a cool, dry area. Elevated temperatures >100° F 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 at 50% Relative Humidity).

LIMITED WARRANTY

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