

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. 12-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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