



**CONSEAL™**  
CONCRETE SEALANTS INC.

**ConSeal™ CS-5000**

POLYCHLOROPRENE RUBBER HYDROPHILIC WATERSTOP

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

## Ultra-Performance Hydrophilic Waterstop



Certified to NSF/ANSI/CAN 61



### APPLICATIONS

For concrete joints in: Precast Tunnel Segments, Precast Concrete Structures of All Types, Cast-In-Place Construction Joints, Foundations, Slabs, Parking Garages, Retaining Walls, Storage Tanks, Wall or Floor Penetrations made from: Steel, PVC, and Concrete Pipe. **Not intended for use in expansion joints or joints that move.**

**NSF/ANSI/CAN 61 CERTIFIED FOR USE IN DRINKING WATER STRUCTURES**

### PHYSICAL PROPERTIES

Description	Spec	CS-5000
Color:		Orange
Specific Gravity:	ASTM D71	1.25-1.40
Elongation:		400%
Hardness:	ASTM D217	40 dmm
Application Temperature Range:		-10°F to 125°F (-22°C to 52°C)
Service Temperature Range:		-50°F to 200°F (-45°C to 93°C)

### PERFORMANCE CHARACTERISTICS

Description	CS-5000
Swelling – Freshwater:	400%
Hydrostatic Pressure Resistance	
• Standard Precast Concrete Joint:	<b>30 psi (2 bars)</b>
• Precast Concrete Tunnel Segments:	<b>75 psi (5 bars)</b>
• Cast-In-Place Construction Joint:	<b>100 psi (6.8 bars)</b>

### CS-1900 BEDDING ADHESIVE PHYSICAL PROPERTIES & FEATURES

Property	Test Method	CS-1900
Color		Blue, Rubber
Cure System		Hybrid, Moisture Cure
Cure Rate (77°F @ 50% Relative Humidity)		1/8" per 40 hours
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 D661	35
VOC Content		20.6 grams/liter
Shrinkage		No measurable shrinkage after 14 days
Service Temperature		-40°F – 220°F (-40°C – 104°C), continuous service
Application Ambient Temp.		40°F – 130°F (4°C – 55°C)
Application Surface Temp.		40°F – 130°C (4°C – 55°C)

### CS-1400 SPLICING ADHESIVE PHYSICAL PROPERTIES

Description	
Color:	Natural
Reaction Time:	30-45 Seconds
Bonding Time:	45-75 Seconds
Full Cure Time:	90-120 Minutes
Shear Strength:	1010 psi
Hardness:	118 Rockwell
Application Temperature:	30°F to 120°F (-1°C to 49°C)
Service Temperature:	-33°F to 212°F (-36°C to 100°C)
Storage Temperature:	50°F to 90°F (10°C to 32°C)
Shelf Life:	12 Months from Manufacture Date

### INSTALLATION

#### Surface Preparation

Waterstop Splice: Surface must be dry, free of loose debris, and contaminants before adhering the splices together.

#### Application Instructions

Splices: Apply a 1/8"-1/4" (3-6mm) bead of CS-1900 to adhere splices of CS-5000 waterstop. When using CS-1900 as a primer for CS-5000, assemble splices before the adhesive starts curing and apply steady pressure over the gluing area during the "bonding time".

### INSTALLATION

#### Features

- Over 100% hydrophilic expansion in the first 48 hours and 250% in 30 days.
- Superior adhesion to most construction materials, including: Concrete, Metal, Fiberglass, Many Plastics, PVC, Glass, Aluminum and Wood.

#### Application of CS-1900 as a Bedding Adhesive

Maintain CS-1900 at room temperature (~70°F) before applying to ensure easy application. A clean, dry, sound and uncontaminated surface is mandatory. CS-1900 may be factory or field applied to seal various construction components. Work CS-1900 into rough surfaces to optimize surface contact. Tooling techniques using solvents or soapy solutions are not recommended. For more detailed information review the technical data sheet for CS-1900.

#### 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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