

## 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-1400 to adhere splices of CS-5000 waterstop. When using CS-1400 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

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