

## ConSeal™ CS-231

# Controlled Expansion

# Waterstop Sealant

## Controlled Expansion Hydrophilic Waterstop for Poured-in-Place and Precast Concrete



### **Applications**

For concrete joints in: Manholes, Box Culverts, Double Pours, Containment Structures, Concrete Slabs, Bridge & Deck Abutments, Large Septic Tanks, Wall or Floor Penetrations, Tunnels, Cold Joints, Retaining Walls, Controlled Environment & Utility Vaults, Water & Wastewater Treatment Facilities. Not intended for use in expansion joints or joints that move.

#### NSF Standard 61 Certified, Safe for Drinking Water Applications

#### Adhesive Sealing Gasket

ConSeal CS-231 Waterstop is a rubber-based product that has been formulated with hydrophilic compounds that allow it to expand in a controlled fashion when exposed to moisture, thereby sealing off leaks and restoring long-term, watertight joint integrity. Traditional, clay-based waterstop products, on the other hand, expand uncontrollably and eventually deteriorate, causing a complete loss of joint integrity.

### Hydration-Dehydration Cycle Testing

The test evaluates the integrity of CS-231 Waterstop when exposed to cycles of hydration and dehydration. A cycle consists of nine days full immersion in water followed by five days air-drying. ConSeal CS-231 showed no visible signs of deterioration at the conclusion of 10 cycles of exposure.

CS-231

Physical	<b>Properties</b>
Description	

Color:		Black
Specific Gravity:	ASTM D71	$1.40 \pm 5$
Hydrocarbon Content:	ASTM D4	47% min.
Volatile Matter:	ASTM D6	1% max.
Penetration, cone 77°F, 150 gm. 5 sec.:	ASTM D217	43 - 46 dmm
Application Temperature Range:		-10°F to 125°F
		(-22°C to 52°C)
Service Temperature Range:		-30°F to 180°F
		(-34°C to 82°C)

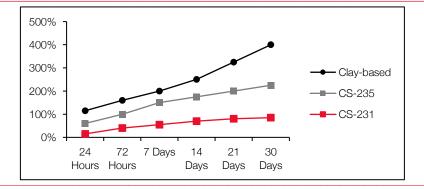
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Description	CS-231	
Maximum Swelling - Freshwater:	145%	
Maximum Swelling - Saltwater (3%):	12%	
Hydrostatic Pressure Resistance		
Standard Precast Concrete Joint:	30 psi (2 bars)	
Cast-In-Place Construction Joint:	100 psi (6.8 ba	

#### Immersion Testing

#### Freshwater Exposure Results:

24 Hours: 15% Expansion 72 Hours: 40% Expansion 55% Expansion 7 Days: 14 Days: 70% Expansion 21 Days: 80% Expansion 30 Days: 85% Expansion



### **Limited Warranty**

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