

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



Certified to NSF/ANSI/CAN 61



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

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.

PHYSICAL PROPERTIES

Description	Spec	CS-231
Color:		Black
Specific Gravity:	ASTM D71	1.40 ± 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)

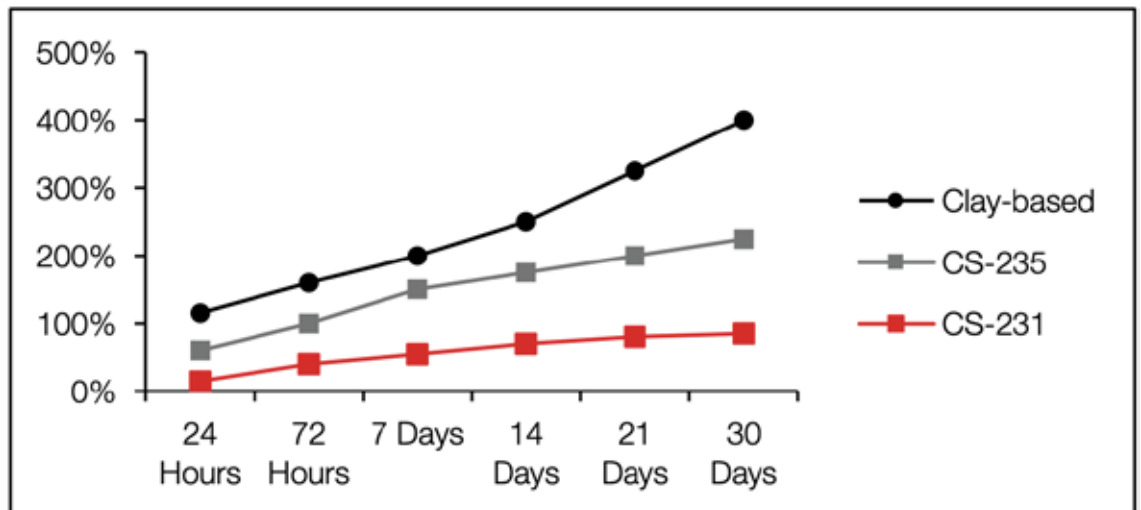
PERFORMANCE CHARACTERISTICS

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 bars)

IMMERSION TESTING

Freshwater Exposure Results:

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



LIMITED WARRANTY

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