

# CST-Series (Traffic Grade)

## Description

The Traffic-Grade Contour Seal (CST) is composed of a high density, open micro-cell polyurethane foam impregnated with a hydrophobic polymer sealing compound. It has been developed to meet the high performance needs of state and federal DOT projects.

The CST seals have constant internal forces built into each cell. These cells continuously push against each other and the sidewalls of an opening to provide a permanent, watertight seal eliminating costly water damage, as well as allowing for a greater degree of joint movement. The seal incorporates a factory applied traffic-grade silicone coating on one side of the foam seal.

The CST system provides a waterproof, dustproof, airtight, UV stable, chemically resistant, soundproof and insulated urethane primary seal. Once the CST is installed in the joint, the material expands depending on temperature, adapting to the width of the joint and the irregularities of the substrate provided such profile changes are not sudden or extreme.

Recommended for use in applications in the horizontal position, where there needs to be resistance to typical roadway traffic or chemicals found on roadways, bridges, garages, plaza decks and other areas that may be a concern.



## Physical Properties

Properties	Result
Thermal Conductivity	0.05 W/m. °C
Thermal Resistance	ASTM C 518, 3.3, hr-°F-ft <sup>2</sup> /Btu
Temperature Stability Range	-40° F to 185° F
Tensile Strength	ASTM 3574, meets 21 psi min.
Ultimate Elongation	ASTM 3574, 125% +/- 20%
Resistance to Compression Set	ASTM 3574, Max. 2.5%
Shear Strength	Min. 8N/cm <sup>2</sup>
Mildew Resistant	Excellent
UV Resistant	Excellent

## Features and Benefits

- Can accommodate rapid rates of joint movement
- Supplied in pre-compressed state for ease of installation
- Excellent compression recovery
- Permanently conforms to varying joint contours
- Allows for up to 100% (±50%) movement from mean joint size
- Consistent depth of product
- Not based on asphaltic or bitumastic impregnation
- Resilient and flexible to -40°F (long term)
- Standard Color: Gray
- Sizes available in 1/4" increments
- **LEED Credits** - Up to two (2) LEED credits depending on the location of the project.

PRODUCT	DEPTH OF SEAL IN (MM)	MIN. WIDTH IN (MM)	MID-RANGE IN (MM)	MAX. WIDTH IN (MM)	TOTAL MOVEMENT IN (MM)
CST-050	1.50" (38.1)	0.25" (6.4)	0.50" (12.7)	0.75" (19.1)	0.50" (12.7)
CST-100	2.00" (50.8)	0.50" (12.7)	1.00" (25.4)	1.50" (38.1)	1.00" (25.4)
CST-150	2.00" (50.8)	0.75" (19.1)	1.50" (38.1)	2.25" (57.2)	1.50" (38.1)
CST-200	3.00" (76.2)	1.00" (25.4)	2.00" (50.8)	3.00" (76.2)	2.00" (50.8)
CST-250	3.00" (76.2)	1.25" (31.8)	2.50" (63.5)	3.75" (95.3)	2.50" (63.5)
CST-300	3.00" (76.2)	1.50" (38.1)	3.00" (76.2)	4.50" (114.3)	3.00" (76.2)
CST-350	3.00" (76.2)	1.75" (44.5)	3.50" (88.9)	5.25" (133.4)	3.50" (88.9)
CST-400	3.00" (76.2)	2.00" (50.8)	4.00" (101.6)	6.00" (152.4)	4.00" (101.6)
CST-500	4.00" (101.6)	2.50" (63.5)	5.00" (127.0)	7.50" (190.5)	5.00" (127.0)
CST-600	4.00" (101.6)	3.00" (76.2)	6.00" (152.4)	9.00" (228.6)	6.00" (152.4)

