



MM[®] SCE-H Series Expansion Joint

Silicone Covered Ethylene Horizontal Foam Seal

SPECCORDATA
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DESCRIPTION

The SCE-H Series is designed for standard horizontal and vertical expansion joint openings. Horizontal joints can accommodate vehicular and pedestrian traffic. Two waterproofing technologies are combined into a dual sealing system. A primary traffic grade silicone surface seal is factory applied to a secondary closed-cell copolymer ethylene vinyl acetate foam rubber seal. The foam seal facilitates superior heat welded transitions thereby providing additional waterproofing protection throughout expansion and contraction cycles.

BASIC USE

ColorJoint SCE-H is designed for sealing horizontal expansion joints that measure 1" (25mm) or larger in a wide variety of concrete substrate applications.

FEATURES

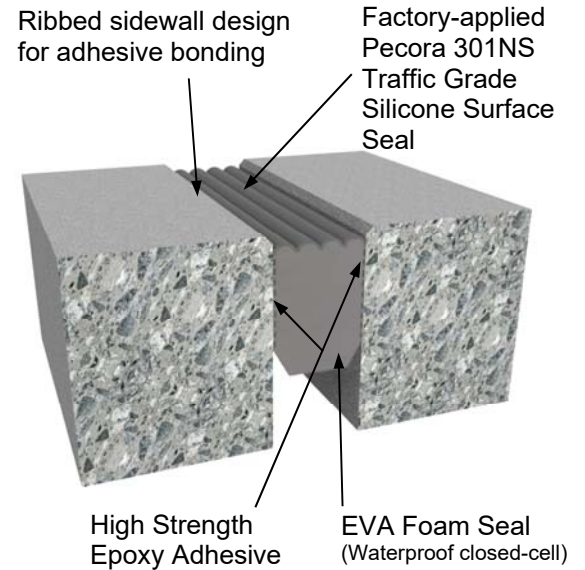
- Horizontal sealing system not requiring blockouts.
- Capable of +/-25% thermal movement.
- Designed to accommodate complex miters and changes in direction with heat weldable transitions.
- Waterproof closed-cell ethylene vinyl acetate foam back seal provides constant sidewall pressure.
- Vehicular/Traffic Grade Silicone Surface Seal.
- Tenacious thixotropic epoxy anchoring system bonds to concrete, aluminum and steel.
- Resistant to UV, ozone, acid rain, most chemicals and extreme temperatures.
- Easy to install, no fasteners or anchors.

SPECIAL FEATURES

- Does not rely on the silicone surface seal to provide a watertight seal.
- Difficult transition splicing simplified through heat welded or adhesive bonded seams.
- Fire Barriers - MM expansion joint systems are available with 2 to 4 hour fire protection ratings.

LIMITATIONS

- Joint opening substrate must be sound, dry, and free of any laitance, curing agents or foreign matter
- Install temperature must be 40°F and rising.



PACKAGING

SCE-H is supplied in 8-foot factory lengths. Silicone Sealant is packaged in 20 fl. oz. (592 ml) sausages. Epoxy Adhesive is supplied in Part A & Part B 1/2-gallon containers. "Easy-mix" pre-measured packaging insures consistent field performance.

COLOR OPTIONS

Available in UV Stable Gray.

STORAGE

All materials should be stored off the ground in a cool, dry location 70-80°F (20-27°C) for a minimum of 24 hours prior to installation regardless of the temperature at installation location.

PRECAUTIONS

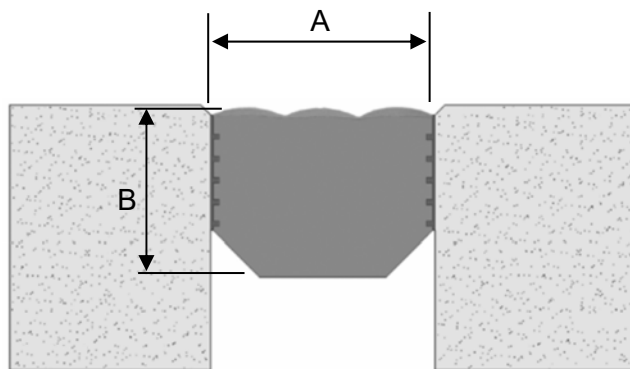
Use splash goggles and chemical resistant gloves to avoid prolonged or repeated skin contact with epoxy adhesive. Use with adequate ventilation. In case of eye contact, immediately flush (low pressure) with lukewarm water. In case of skin contact, immediately wash skin with soap and water. If swallowed, do not induce vomiting. Drink several glasses of water and call physician or poison control center. Read and follow labels and Material Safety Data Sheet before use.

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SELECTION GUIDE

Model Number	Total Movement		Joint Opening "A"						Installation Width				Seal Depth "B"	
			Minimum	Nominal	Maximum	Minimum	Maximum	Minimum	Maximum					
SCE-H-100	0.85	22	0.40	10	1.00	25	1.250	32	1.00	25	1.250	32	1.50	38
SCE-H-150	1.28	32	0.60	15	1.50	38	1.875	48	1.50	38	1.875	48	1.50	38
SCE-H-200	1.70	43	0.80	20	2.00	51	2.500	64	2.00	51	2.500	64	3.00	76
SCE-H-250	2.13	54	1.00	25	2.50	64	3.125	79	2.50	64	3.125	79	3.00	76
SCE-H-300	2.55	65	1.20	30	3.00	76	3.750	95	3.00	76	3.750	95	3.00	76
SCE-H-350	2.98	76	1.40	36	3.50	89	4.375	111	3.50	89	4.375	111	3.00	76
SCE-H-400	3.40	86	1.60	41	4.00	102	5.000	127	4.00	102	5.000	127	3.00	76
SCE-H-450	3.83	97	1.80	46	4.50	114	5.625	143	4.50	114	5.625	143	3.00	76
SCE-H-500	4.25	108	2.00	51	5.00	127	6.250	159	5.00	127	6.250	159	3.00	76
SCE-H-550	4.68	119	2.20	56	5.50	140	6.875	175	5.50	140	6.875	175	3.00	76
SCE-H-600	5.10	130	2.40	61	6.00	152	7.500	191	6.00	152	7.500	191	3.00	76

Dimensions are in **inches** (bold) and millimeters. Depth "B" is at full compression.



PHYSICAL PROPERTIES

Physical Property	Test Method	Typical Value
EVA Copolymer Rubber		
Tensile strength	ASTM D3575	115 psi +/-25%
Ultimate elongation	ASTM D3575	255% +/-25%
Tear Resistance	ASTM D624	20 lbs./in. +/-20%
Water Absorption (by weight)	ASTM D3575	<.02 lbs./ft ²
Density Average	ASTM D3575	2.7-3.2 lbs./cu.ft.

Listed properties are approximate values - actual field results may vary.

LIMITED WARRANTY

MM Systems warrants the SCE-H Series Expansion Joint System to be free of defects in material and conform to technical data listed. Since methods of application can affect performance and on site conditions are beyond our control, MM Systems makes no other warranty, expressed or implied, including warranties of MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. MM Systems sole obligation shall be, at its option, to replace, or to refund the purchase price of the quantity of system proved to be defective. In no event shall MM Systems be liable for any special, incidental, consequential, loss of profits or punitive damages. Other warranties may be available when installed by a MM Certified Contractor.

INSTALLATION

- 1) Remove and repair all unsound substrates. Joint opening sidewall interface areas must be clean and dry prior to installation.
- 2) Remove any curing agents, laitance or foreign matter by abrasive blasting.
- 3) Joint opening must be blown with compressed air immediately prior to seal installation.
- 4) Lay out the SCE-H next to the joint opening to check for appropriate length and width. SCE-H is supplied non-compressed to a size larger than the intended opening.
- 5) Install the seal by pushing it down into the joint opening.
- 6) Apply epoxy adhesive between the seal and joint opening sidewall interface to adhere the seal.
- 7) If necessary due to concrete irregularities, apply a fillet bead of silicone sealant on each side of silicone bellows surface seal.
- 8) Position seal according to dimensional guidelines.
- 9) Refer to SCE-H Installation Guide for detailed step-by-step instructions.

MM Systems reserves the right to amend or withdraw information contained herein, without notice, and will not be liable for any inaccuracy or ambiguity of said information.

Current Issue 5-20-20

