EOS-Series

Two Part Epoxy Systems

Description

The Econ-O-Seal (EOS) is made of multi-cellular expanded neoprene rubber. The shape has serrated sidewalls to which the structural two-part epoxy adhesive will bond the seal into place. Our range of various sized seals from one (1) through five (5) inches offers a selection to accommodate the most commonly used movement ranges.

Product Utilization

The EOS-Series Expansion Joint Sealing System is used to seal most types of small movement expansion joints in parking structures, stadiums, plazas and other types of concrete structures.

Additionally, this seal may be used in the inverted position, as a backer rod to support and seal a caulked joint at a critical location.

Features and Benefits

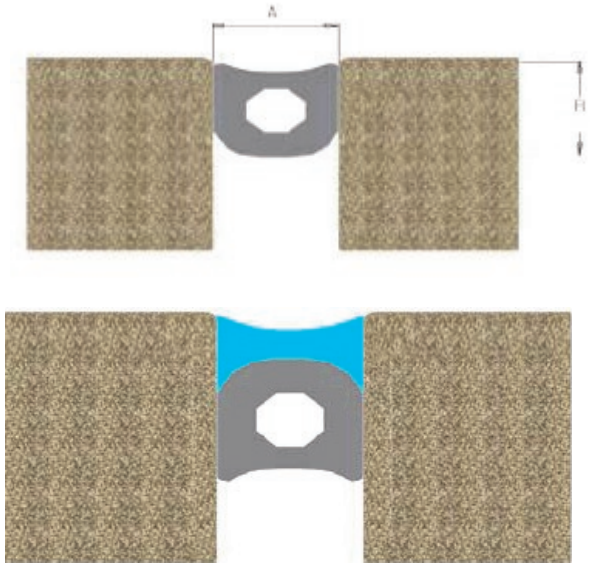
- Compatible: The system is adaptable to many applications and can be used with any of EMS' expansion joint products.
- Easy to Install: The seal is packaged in a single length. The Two-Part Epoxy adhesive is delivered in one-unit kits. The mix ratio is 1:1 for ease of mixing and smaller unit batches. Apply adhesive to the seal and joint opening sidewalls and insert the seal.
- Movement and Shear Capabilities: The cross section will accommodate 30% expansion, 50% contraction and 35% parallel lateral shear movement capabilities.
- ADA Compliant System: The EOS System is within the guidelines of ADA when used in conjunction with flat seal caulking.
- No Block-Out Recess Required: The EOS system is a solid choice for contractors in the industry for the reason that no block-out recess is required. The seal profile fits between joint interfaces, adapting to slight variances in joint width.

TABLE 1 – Physical Properties of the EOS-Seal

Property	ASTM Test Method	Requirement
Tensile strength, min.	D412	125 psi
Elongation at break, min.	D412	200%
Compression deflection	D1056	5-9 psi.
Hardness, shore "00"	D2240	35-60
Compression set-1/2" compressed 50%, 22hrs @ 70° F– 24 hr. recovery	D1056	5%
Water absorption by weight	D1056	5% by weight
Density	D1056	12-25 pcf
U.V. Resistance		Excellent

TABLE 2 – Physical Properties of the High Strength Adhesive

Property	Requirement
Adhesive type	2-Component thixotropic paste
Tensile strength	4500 psi
Axial compression	8775 psi
Pot life	35 minutes at 68° F
Hardness	Shore D, 82-84
Flash point	> 200° F (both components)
Non-volatile content	100% Reactive
Initial cure @ 70º F	24 hours
Complete cure	7 days @ 68° F



PRODUCT	MIN. WIDTH IN (MM)	MID-RANGE IN (MM)	MAX. WIDTH IN (MM)	TOTAL MOVEMENT IN (MM)	DIM. A: IN (MM)	DIM. B: IN (MM)
EOS-100	0.45' (11.4)	0.80" (20.3)	1.25" (31.8)	0.80" (20.3)	1.00" (25.4)	1.00" (25.4)
EOS-150	0.67" (17.2)	1.20" (30.5)	1.87" (47.6)	1.20" (30.5)	1.50" (38.1)	1.50" (38.1)
EOS-200	0.90" (22.9)	1.60" (40.6)	2.50" (63.5)	1.60" (40.6)	2.00" (50.8)	2.00" (50.8)
EOS-250	1.12" (28.6)	2.00" (50.8)	3.12" (79.4)	2.00" (50.8)	2.50" (63.5)	2.40" (61.0)
EOS-300	1.35" (34.3)	2.40" (61.0)	3.75" (95.3)	2.40" (61.0)	3.00" (76.2)	2.50" (63.5)
EOS-400	1.80" (45.7)	3.20" (81.3)	5.00" (127.0)	3.20" (81.3)	4.47" (113.0)	4.00" (101.6)