



Name: SOF[®]ROD (PATENTED)

BI-CELLULAR BACKER ROD

A continuous length of extruded polyolefin foam made of a nonabsorbing outer skin and a highly resilient interior network of open and closed cells, which does not out-gas when ruptured.



FEATURES

- Meets all of the requirements of the 1990 Clean Air Act
- Is a "Domestic End Product" as defined in the Buy American Act, Title 41 USC 10.
- Easy to apply
- Non Gassing
- Non-exuding
- Chemically inert
- Non-absorbing

DESCRIPTION

TYPE: B — Per ASTM C 1330. - Cylindrical flexible sealant backings composed of bi-cellular material as defined in Terminology ASTM C 717.

FORM: Round Foam Rod

TEMPERATURE LIMITS: -45°F to 160°F

APPLICATIONS

Expansion and contraction joints where cold applied sealants are used. SOF[®]ROD is commonly used in new expansion and contraction joints and in joints that are being rehabilitated, that may have non-uniform joint dimensions, such as curtain wall construction partitions, precast assemblies and copings, parking decks, bridge construction, building rehabilitation, etc. It easily fills various sizes and shapes of openings and is non-gassing when punctured during installation.

SIZE SELECTION (Table 1)

Proper size selection is important, as it controls the depth of the sealant bead. It must be oversized to fit tightly into the joint, and function as a bondbreaker to prevent back-side adhesion of the sealant.

BENEFITS

Limits the amount of the applied sealant, acts as a barrier interface to prevent backside adhesion (bondbreaker), and provides a form to assist the sealant in developing the shape factor and depth to width ratio of the sealant.

COMPATIBILITY

SOF[®]ROD is basically an inert material, and therefore compatible both physically and chemically with virtually all known cold applied sealants including self-leveling types.

INSTALLATION

Verify that the joint is clean, moisture free and clear of obstructions. Select SOF[®]ROD in a diameter approximately 25% larger than the joint. Cut SOF[®]ROD to the desired length or dispense directly from the reel. Position SOF[®]ROD in the joint at the depth specified by the sealant manufacturer, engineer, or architect. Press SOF[®]ROD uniformly into the joint using a blunt tool. Apply sealant over SOF[®]ROD following the sealant manufacturer's directions.

PRECAUTIONS

Do not puncture, over compress or stretch SOF[®]ROD during insertion. Do not use with hot applied sealants. Tests for outgassing of cold applied sealants shall be made in accordance with ASTM Test Method C 1253. Sealant compatibility should be confirmed by the sealant manufacturer. Compatibility characteristics of sealants in contact with sealant backings can be determined by ASTM Test Method C 1087.

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Physical Property Requirements

Property	Value	ASTM Test Methods
Water absorption (g/cc)	<.03	C 1016 Procedure B
Density lb/ft ³ (kg/m ³), max	1.8-2.5 (28-40)	D 1622
Outgassing (No. of bubbles)	< 1	C 1253
Compression recovery, %, min	> 90	D 5249
25% Compression deflection force, psi (kg/cm ²), max	5 (.35)	D 5249
Tensile Strength psi (kg/cm ²), min	38 (2.67)	D 1623

TABLE 1 DUAL•ROD[®] Product Packaging Information and Recommended Diameter Use for Joint Width

Nominal Diameter in. - mm		Joint Dimension in. - mm		Linear Ft./ Carton lft. - m		Carton Dimension	#/ Carton lbs. - kg	
3/8"	10	1/4"	6	3600	1097	18"x18"x31"	12	5.4
5/8"	16	1/2"	13	1550	472	18"x18"x31"	12	5.4
7/8"	22	11/16"	18	850	259	18"x18"x31"	12	5.4
1-1/8"	29	7/8"	22	400	122	18"x18"x31"	12	5.4
1-1/2"	38	1-1/8"	29	552	168	12"x22"x74"	18	8
2"	51	1-5/8"	41	360	110	12"x22"x74"	18	8
2-1/2"	64	2"	51	240	73	12"x22"x74"	18	8
3"	76	2-1/2"	64	144	44	12"x22"x74"	18	8
4"	102	3"	76	90	27	12"x22"x74"	18	8