

### Closed-Cell Backer Rod

Round, flexible, continuous lengths of extruded, closed-cell polyethylene foam backer rod for use as a backing material for elastomeric and other cold applied sealants.

D E C E M B E R 2 0 1 4



#### Features

- Easy to apply
- Non-exuding
- Chemically inert
- Virtually dust-free
- 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

#### Description

**TYPE:** C - Per ASTM C 1330. Cylindrical, flexible sealant backings composed predominantly of closed cell material per ASTM C 1330 for use with cold applied sealants.

**TYPE:** 3 -Per ASTM D 5249. Round rods of various diameters for use with cold applied joint sealants.

**FORM:** Round Foam Rod.

**TEMPERATURE LIMITS:** -45°F to +160°F.

#### Benefits

HBR limits the depth of the sealant and prevents excessive sealant use. It also helps sealant assume optimum shape factor to prolong sealant service life and acts as a barrier to the flow of sealant through the joint.

#### Applications

Common applications include, but are not limited to, expansion and contraction joints, curtain walls, construction partitions, parking decks and bridge construction.

#### Storage

Store in a well ventilated area. Do not store products in direct sunlight. Keep away from heat sources and open flames.

Physical Properties		
Property	Value	ASTM Test Methods
Density lb/ft <sup>3</sup> (kg/m <sup>3</sup> ), avg.	> 1.5 (24)	D 1622
Outgassing (No. of Bubbles)	> 1	C 1253
Compression Recovery, %, min	> 96	D 5249
Compression Deflection psi (kPa)	5.5 (38.2)	D 5249
Tensile Strength psi (kPa)	> 29 (200)	D 1623
Water Absorption (g/cc)	< .03	C 1016 - Procedure B



## Product Packaging Information and Recommended Diameter Use for Joint Width

Product	Unit	Roll Length	Unit Weight	Unit Dimension	Joint Dimension
1/4" (6 mm)	Spool	6400' (1951 m)	12 lbs (5.4 kg)	18" x 18" x 31"	3/16" or less (5 mm or less)
1/4" (6 mm)	Handy Pack	2500' (762 m)	7 lbs (3 kg)	15" x 15" x 18"	3/16" or less (5 mm or less)
3/8" (10 mm)	Spool	3600' (1097 m)	12 lbs (5.4 kg)	18" x 18" x 31"	1/4" (6 mm)
3/8" (10 mm)	Handy Pack	1400' (427 m)	7 lbs (3 kg)	15" x 15" x 18"	1/4" (6 mm)
1/2" (13 mm)	Spool	2500' (762 m)	12 lbs (5.4 kg)	18" x 18" x 31"	3/8" (10 mm)
1/2" (13 mm)	Handy Pack	800' (244 m)	7 lbs (3 kg)	15" x 15" x 18"	3/8" (10 mm)
5/8" (16 mm)	Spool	1550' (472 m)	12 lbs (5.4 kg)	18" x 18" x 31"	1/2" (13 mm)
5/8" (16 mm)	Handy Pack	550' (168 m)	7 lbs (3 kg)	15" x 15" x 18"	1/2" (13 mm)
3/4" (19 mm)	Spool	1100' (335 m)	12 lbs (5.4 kg)	18" x 18" x 31"	5/8" (16 mm)
3/4" (19 mm)	Handy Pack	400' (122 m)	7 lbs (3 kg)	15" x 15" x 18"	5/8" (16 mm)
7/8" (22 mm)	Spool	850' (259 m)	12 lbs (5.4 kg)	18" x 18" x 31"	11/16" (18 mm)
1" (25 mm)	Spool	550' (168 m)	12 lbs (5.4 kg)	18" x 18" x 31"	3/4" (19 mm)
1-1/4" (32 mm)	Spool	400' (122 m)	12 lbs (5.4 kg)	18" x 18" x 31"	7/8" (22 mm)
1-1/2" (38 mm)	Cut Length	550' (168 m)	18 lbs (8 kg)	23" x 13" x 75"	1-1/8" (29 mm)
2" (51 mm)	Cut Length	360' (110 m)	18 lbs (8 kg)	23" x 13" x 75"	1-5/8" (41 mm)
2-1/2" (63 mm)	Cut Length	240' (73 m)	18 lbs (8 kg)	23" x 13" x 75"	2" (51 mm)
3" (76 mm)	Cut Length	144' (44 m)	18 lbs (8 kg)	23" x 13" x 75"	2-1/2" (64 mm)
4" (102 mm)	Cut Length	90' (27 m)	18 lbs (8 kg)	23" x 13" x 75"	3" (76 mm)
6" (152 mm)	Cut Length	72' (22 m)	40 lbs (18 kg)	25" x 12" x 112"	4-1/2" (114 mm)

## Joint Preparation and Installation

Just prior to installing HBR, clean all joints per the sealant manufacturer's recommendations. Thoroughly remove any concrete form-release agents, curing compound residue, laitance, or any foreign materials. To ensure a good sealant bond, joints must be clean and dry when the new sealant is installed. Air compressors used for this purpose must be equipped with traps for removal of oil and moisture. Install HBR at the depth recommended by the sealant manufacturer with a blunt tool.

## Size Selection

Proper size selection is important as it controls the depth of the sealant bead. It must be oversized (25-50%) to fit tightly into the joint and function as a bondbreaker to prevent back-side adhesion of the sealant.

## Compatibility

Closed-cell polyethylene foam is an inert material; and therefore, it is compatible, both physically and chemically, with virtually all known cold applied sealants including self-leveling types.

## Precautions

Do not puncture, over compress or stretch HBR 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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