

BACKER ROD

NAME: HBR[®]

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.

FORM: Round Foam Rod

TEMPERATURE LIMITS: -45°F to 160°F



NOMA SPEC

SUBMITTAL SHEET

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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
- Chemically inert
- Waterproof

DESCRIPTION

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.

APPLICATIONS

Commonly used in new construction Expansion/Contraction Joints where cold applied sealants are used, such as curtain walls, construction partitions, precast assemblies and copings, parking decks, bridge construction, building rehabilitation, etc.

BENEFITS

Limits depth of the sealant, and prevents excessive sealant use. Helps sealant assume optimum shape factor to prolong sealant service life.

Will not absorb water or wick water to the joint walls to cause adhesive failure.

Prevents bottom-side adhesion of the sealant.

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 bottom-side adhesion of the sealant.

JOINT PREPARATION (Pavements)

New joints must be cleaned thoroughly, removing any concrete form-release agents, curing compound residue, laitance, or any foreign materials. Freshly sawed joints should be washed with water immediately afterward to remove any loose material from the joint faces. Wire brushing, sandblasting, high-pressure water, or any combination of techniques should be used to remove contaminants remaining on the joint face. To ensure a good sealant bond, joints must be clean and dry when the new sealant is installed. In repairing old joints, all old sealant or filler must be removed. This can be done by cutting or blowing out the old material or using any other procedure found to be effective.

INSTALLATION & SEALANT PLACEMENT (Buildings)

Just prior to placing the backer rod, clean all joints per the sealant manufacturer's recommendations. Air compressors used for this purpose must be equipped with traps for removal of oil and moisture. Install the backer rod at the depth recommended by the sealant manufacturer with a blunt tool or roller. Refer to sealant manufacturer's recommendations.

PRECAUTIONS

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Sealant Backer Properties

Note — This table applies to cylindrical sealant backing for use with cold liquid applied sealants

Property	Value	Test Method
Water absorption (g/cc)	<0.03	C 1016—Procedure B
Density (kg/m ³)	24.48	D 1622
Outgassing (No. of bubbles)	>1	C 1253
Compression recovery (%)	>90	D 5249
Compression deflection (kPa)	>20.5	D 5249
Tensile Strength (kPa)	>200	D 1623

HBR[®]

TABLE 1
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	#/ Ctn. lbs.—kg			
1/4"	6	3/16" or less	5 or less	6400	1951	18"x18"x31"	12	2
3/8"	10	1/4"	6	3600	1097	18"x18"x31"	12	2
1/2"	13	3/8"	10	2500	762	18"x18"x31"	12	2
5/8"	16	1/2"	13	1550	472	18"x18"x31"	12	2
3/4"	19	5/8"	16	1100	335	18"x18"x31"	12	2
7/8"	22	11/16"	18	850	259	18"x18"x31"	12	2
1"	25	3/4"	19	550	168	18"x18"x31"	12	2
1 1/4"	32	7/8"	22	400	122	18"x18"x31"	12	2
1 1/2"	38	1 1/8"	29	552	168	12"x22"x 74"	18	8
2"	51	1 5/8"	41	360	110	12"x22"x 74"	18	8
2 1/2"	64	2"	51	240	73	12"x22"x 74"	18	8
3"	76	2 1/2"	64	144	44	12"x22"x 74"	18	8
4"	102	3"	76	90	27	12"x22"x 74"	18	8
6"	152	4 1/2"	114	108	32	24"x36"x108"	140	62

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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