HBR®

Closed-Cell Polyethylene Backer Rod

HBR® is a closed-cell polyethylene foam backer rod used in concrete construction. HBR acts as a barrier, limits the depth of cold-applied sealant required and prevents excessive sealant use.

PERFORMANCE

HBR helps cold-applied sealants assume the optimum hour glass shape to prolong the sealant service life. It is commonly used in applications such as expansion and contraction joints, curtain walls, construction partitions, parking decks and bridge construction.

HBR is an inert material, and therefore, it is physically and chemically compatible with virtually all known cold-applied sealants including self-leveling types. Sealant compatibility should be confirmed by the sealant manufacturer. Compatibility characteristics of sealants in contact with sealant backings can be determined by ASTM C 1087 test method.

INSTALLATION

Prior to installing HBR, the joints should be cleaned per the sealant manufacturer's recommendations. Thoroughly remove any concrete form-release agents, curing compound reside, 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 with a blunt tool to the depth recommended by the sealant manufacturer.

Care should be taken not to puncture or over-compress HBR during installation. 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 bond-breaker to prevent back-side adhesion of the sealant. HBR is not meant to be used with hot-pour sealants.

DESCRIPTION

FORM: Round Foam Rod.

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.

TEMPERATURE LIMITS: -45°F to +160°F.

Features

- Lightweight
- Water resistant
- Non-exuding
- Easy to use
- Use with cold-applied sealants
- Clean product
- Inert
- Recyclable
- Made in USA

Specification Compliance

- Meets all requirements of the 1990 Clean Air Act
- Is a "Domestic End Product" as defined in Buy American Act, Title 41 USC 10

NOMACO®

HBR®

PHYSICAL PROPERTIES

Property	Value	ASTM Test Methods
Density lb/ft³ (kg/m³), avg.	1.5-3.0 (24-48)	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 INFORMATION

Product	Unit	Roll Length	Joint Dimension
1/4" (6 mm)	Spool	6400' (1951 m)	3/16" or less (5 mm or less)
1/4" (6 mm)	Handy Pack	2500' (762 m)	3/16" or less (5 mm or less)
1/4" (6 mm)	Poly Bag	500' (152 m)	3/16" or less (5 mm or less)
3/8" (10 mm)	Spool	3600' (1097 m)	1/4" (6 mm)
3/8" (10 mm)	Handy Pack	1400' (427 m)	1/4" (6 mm)
3/8" (10 mm)	Poly Bag	300' (91 m)	1/4" (6 mm)
1/2" (13 mm)	Spool	2500' (762 m)	3/8" (10 mm)
1/2" (13 mm)	Handy Pack	800' (244 m)	3/8" (10 mm)
1/2" (13 mm)	Poly Bag	200' (61 m)	3/8" (10 mm)
5/8" (16 mm)	Spool	1550' (472 m)	1/2" (13 mm)
5/8" (16 mm)	Handy Pack	550' (168 m)	1/2" (13 mm)
5/8" (16 mm)	Poly Bag	150' (46 m)	1/2" (13 mm)
3/4" (19 mm)	Spool	1100' (335 m)	5/8" (16 mm)
3/4" (19 mm)	Handy Pack	400' (122 m)	5/8" (16 mm)
3/4" (19 mm)	Poly Bag	550' (168 m)	5/8" (16 mm)
7/8" (22 mm)	Spool	850' (259 m)	11/16" (18 mm)
1" (25 mm)	Spool	550' (168 m)	3/4" (19 mm)
1-1/4" (32 mm)	Spool	400' (122 m)	7/8" (22 mm)
1-1/2" (38 mm)	Cut Length	552' (168 m)	1-1/8" (29 mm)
2" (51 mm)	Cut Length	360' (110 m)	1-5/8" (41 mm)
2-1/2" (63 mm)	Cut Length	240' (73 m)	2" (51 mm)
3" (76 mm)	Cut Length	144' (44 m)	2-1/2" (64 mm)
4" (102 mm)	Cut Length	90' (27 m)	3" (76 mm)
6" (152 mm)	Cut Length	72' (22 m)	4-1/2" (114 mm)

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