

HBR[®] XL

Cross-Linked, Closed-Cell
Polyethylene Backer Rod



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

PERFORMANCE

HBR XL can be used with hot-pour and cold-applied sealants and limits the amount and depth of sealant applied into a joint and provides a form to assist cold-applied sealants in developing the proper shape factor to prolong the sealant service life. HBR XL acts as a bond breaker to allow joint movement without undue stress to the sealant. It is commonly used in applications such as expansion and contraction joints, curtain walls, construction partitions, parking decks and bridge construction.

HBR XL is an inert material, and therefore, it is physically and chemically compatible with virtually all known hot-pour and cold-applied sealants including self-leveling types. HBR XL can be used without a bond breaker with no impact on the long term performance of the sealant.

INSTALLATION

Prior to installing HBR XL, the joints should be cleaned 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 XL with a blunt tool at the depth recommended by the sealant manufacturer.

Care should be taken not to puncture, over-compress or stretch HBR XL 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 functions as a bond-breaker to prevent back-side adhesion of the sealant. 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.

DESCRIPTION

FORM: Round Foam Rod.

TYPE: 1 - Per ASTM D 5249. Round rods of various diameters for use with cold-applied and hot-pour joint sealants

TEMPERATURE LIMITS: -45°F to +410°F.

Features

- Lightweight
- Water resistant
- Non-exuding
- Easy to use
- Use with cold-applied sealants
- No bond breaker needed
- 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

PHYSICAL PROPERTIES

Property	Value	ASTM Test Methods
Density lb/ft ³ (kg/m ³), avg.	1.3 - 2.3 (20-37)	D 1622
Outgassing (No. of Bubbles)	> 1	C 1253
Compression Recovery, %, min	> 96	D 5249
Compression Deflection psi (kPa)	5.8 (39.9)	D 5249
Tensile Strength psi (kPa)	23.5 (162)	D 3575
Water Absorption (g/cc)	< .03	C 1016 Procedure B
Heat Resistance °F (°C)	392°F +/- -5°F (200° +/- - 2.8°C)	D 5249

PRODUCT INFORMATION

Product	Unit	Roll Length	Joint Dimension
3/8" (10 mm)	Spool	3600' (1097 m)	1/4" (6 mm)
1/2" (13 mm)	Spool	2500' (762 m)	3/8" (10 mm)
5/8" (16 mm)	Spool	1550' (472 m)	1/2" (13 mm)
3/4" (19 mm)	Spool	1100' (335)	5/8 (16mm)
7/8" (22 mm)	Spool	850' (259 m)	5/8" (16 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)

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