

ITP Hot Rod XL Backer Rod

TECHNICAL
DATA FORM
102

Crosslinked Closed Cell Polyethylene Backer Rod for
Hot Pour Sealant Applications

Basic Use

HOT ROD XL is an ideal non-absorbent compressible backup material inserted into a joint to control sealant depth, create a backstop to:

- Allow proper sealant tooling
- Allow proper wetting of the joint surfaces
- And yield a proper bond breaker between the Backer Rod and sealant.

It can also be used as a temporary joint seal

Specific Uses

HOT ROD XL is a backup material for most hot pour sealants used to fill contraction and expansion joints of concrete highways, runways, driveways, and parking lots. (See application procedure below)

Compatibility

HOT ROD XL is compatible with most rubber-asphalt and coal tar-rubber polymer thermoplastic compounds.

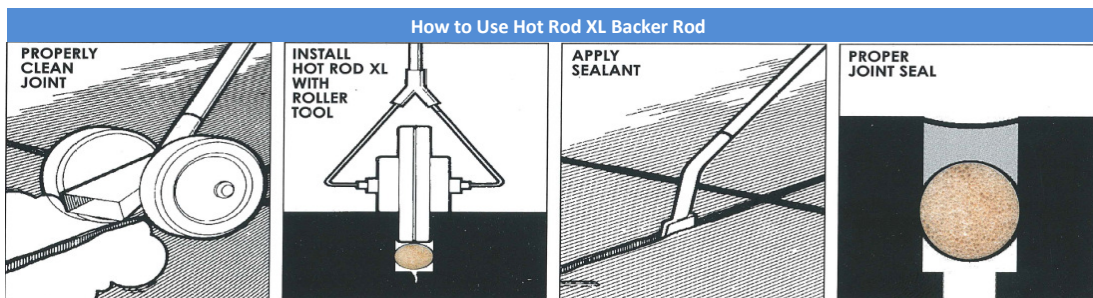
Composition and Materials

HOT ROD XL is an extruded round, closed cell, low-density polyethylene foam material which has been specially crosslinked to withstand temperatures in excess of 400°F. This material is available in beige and a wide variety of diameters. (See table 1)

Table 1: Stock Sizes Available

| Diameter | Shipping Format | Feet per Carton | Metric Diameter | Meters per Carton |
|----------|-----------------|-----------------|-----------------|-------------------|
| 3/8" | 1 Spool | 2100 | 9 mm | 640 |
| 1/2" | 2 Spools | 2500 | 12 mm | 762 |
| 5/8" | 2 Spools | 1550 | 15 mm | 472 |
| 3/4" | 1 Spool | 1100 | 19 mm | 335 |
| 7/8" | 1 Spool | 850 | 22 mm | 259 |
| 1" | 1 Spool | 600 | 25 mm | 182 |
| 1-1/4" | 1 Spool | 400 | 31 mm | 121 |
| 1-1/2" | 6' Lengths | 396 | 38 mm | 121 |
| 2" | 6' Lengths | 228 | 50 mm | 70 |

- Rectangular cartons with convenient hand holes for carrying, are ideal for warehousing and handling
- UPS and most other express services will accept all cartons reshipment
- Truckload quantities furnished on pallets and may be warehoused 2 pallets high to maximize space



Technical Data

HOT ROD XL is chemically inert and will resist oil, gasoline and most other solvents. This material will not stain, soak up moisture, nor adhere to sealant materials and is non-exuding. (Refer to Table 2 for physical properties.)

Installation

The joint depth must be great enough to allow for the proper installation of the HOT ROD XL bond breaker and hot pour sealant. The joint width will be determined by the appropriate thermal expansion coefficient as released to anticipated temperature variances. Joint walls must be smooth and as even as possible and be free of any loose residues or foreign materials. Joints should also be dry and frost-free. Using Table 3, select the proper rod diameter and cut length or use directly from spool. With a sized rubber tool, blunt instrument or by hand, install rod at the level recommended by the sealant manufacturer, specifier or government agency involved.

Technical Assistance

ITP has qualified representatives available to assist users of the various Backer Rod materials referenced herein. Please contact your local ITP distributor or ITP direct should assistance be required.

Purchasing Advantage

ITP offers the widest product range of any North American manufacturer (see Table 4).

For prompt delivery, top service for all your backer rod needs contact ITP today!

Table 2: Physical Property Analysis

| Property | Value | Test Method |
|----------------------------------|---------------------|-------------------------|
| Density (nominal) | 1.5 - 2.5 lbs/cu.ft | ASTM D1622 |
| Outgassing (# of bubbles) | > 1 | C1253 |
| Tensile Strength psi (kPa) | 16 PSI minimum | ASTM D1623 |
| Compression Recovery, %, min | > 96 | ASTM D5249 |
| Compression Deflection psi (kPa) | 5.8 (39.9) | ASTM D5249 |
| Water Absorption | 0.03 gm/cc | ² ASTM C1016 |
| *Temperature (maximum) | 392°F | ASTM D5249 |

*A well know and widely employed rubber asphalt sealaning compound was employed at various temeratur between 390°F and 410°F

Table 4: Carton Sizes & Weights

| Rod Diameter | Weight / Carton | Carton Measurement |
|-------------------------------|-------------------|---|
| 1/4" - 3/8" 6mm to 9mm | 6 lbs 2.7 kgs | 18" x 18" x 15" 457mm x 457mm x 381mm |
| 1/2" - 1 1/4" 12mm to 31mm | 11 lbs 5 kgs | 18" x 18" x 30" 457mm x 457mm x 762mm |
| 1 1/2" - 2" 38mm to 50mm | 14 lbs 6.4 kgs | 17" x 10" x 74" 432mm x 254mm x 1880mm |

GUARANTEE / WARRANTY

Armacell Canada Inc. believes the information and recommendations herein to be accurate and reliable and the products are reasonably fit for the application mentioned. However, as uses, conditions and application methods are not within our control, ITP does not guarantee nor warrant these products nor results from the use of these products or information given. It is therefore the responsibility of the buyer to determine the suitability of these products in applications intended and determine the appropriateness of the product. Size and Lengths per spool are those at times of packaging and may vary with climatic condition after manufacture.

*REGISTERED TRADEMARKS OF INDUSTRIAL THERMO POLYMERS

Table 3: Standard Backer Rod Size to Joint Width

| Joint Width | Diameter |
|-----------------|----------|
| 3/16" - 1/4" | 3/8" |
| 1/4" - 3/8" | 1/2" |
| 3/8" - 1/2" | 5/8" |
| 5/8" - 3/4" | 7/8" |
| 3/4" - 7/8" | 1" |
| 7/8" - 1" | 1 1/4" |
| 1" - 1 1/4" | 1 1/2" |
| 1 1/4" - 1 1/2" | 2" |

*For metric joint widths under 25mm, it is recommended that Backer Rod be at least 3mm larger. For metric joint width above 25mm, it is recommended the Backer Rod diameter be between 6mm and 13mm larger.

Other ITP Backup Materials

Standard Backer Rod - Closed Cell Polyethylene

Foam Backer Rod, sizes: 1/4" - 6"

Soft Type Backer Rod - Bicellular Polyethylene

Foam Backer Rod, sizes: 3/8" - 4"

Tundra Foam Open Cell Polyurethane Foam

Backer Rod, sizes: 3/8" - 2"

Bagged Backer Rod Standard and Soft Type

Pony Paks Spool-less boxes of Standard and Soft

Type Backer Rods

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