



# UNIFLEX PE™

BACKER ROD

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## PRODUCT FEATURES

**UNIFLEX PE™ BACKER ROD** is a non-extruding, non-absorbent, highly resilient, bitumen free, closed cell polyethylene backing rod designed as a backing material for cold-applied elastomeric joint sealants to create a watertight & airtight seal, to provides support and accurate depth measurement for subsequent joint sealant materials for expansion and movement joints in concrete, brick work, block work and masonry.

**UNIFLEX PE™ BACKER ROD** is bitumen free, rot proof and has high compression & recovery therefore accommodating thermal and other structural movements, without the risk of load transfer or reflective cracking through the designed joint.

**UNIFLEX PE™ BACKER ROD** is using in construction projects speeds up curing times and allows the building materials to flex, move and bend in response to environmental factors like heat, cold, wind, humidity or UV light.

## ADVANTAGES

- Control joint depths and ensures a proper width to depth ratio
- Non-absorbent surface eliminates three-side adhesion of the elastomeric sealant
- Bitumen free and rot proof, ideal for water retaining structures
- Closed cell structure does not allow the absorption of moisture or air
- Fully compatible with a wide variety of sealants
- Save time and money

## FIELD OF APPLICATION

Brickworks, Blockworks & Masonry	Curtain Walls
Expansion, Isolation & Control Joints	Pre-cast Panels
Highway & Pavements Joints	Window & Door Applications
Parking Decks	Repairs Work

## TECHNICAL PROPERTIES

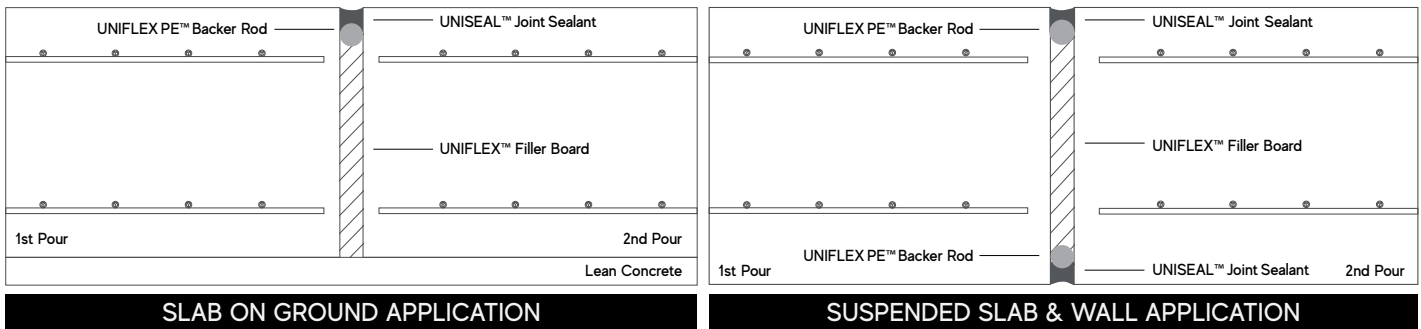
TEST ITEM	UNIT	TEST METHOD	RESULT
Density	kg/m <sup>3</sup>	ASTM D792	28
Tensile Strength	kgf/cm <sup>2</sup>	ASTM D412	5.1
Elongation	%	ASTM D412	180
Hardness	SHORE A	JIS K7312-96	16 +/- 3
Compression Deflection	kgf	ASTM D1056	3.4

\*(All values given are subject to 5-10% tolerance / Compliance with ASTM standard)\*

**PHYSICAL PROPERTIES**

MATERIAL	Closed Cell Polyethylene (PE)	
COLOUR	Grey / White	
SIZE	6mm to 50mm *(other sizes available upon request)	
PACKAGING	6mm - 500m / roll 8mm - 300m / roll 10mm - 300m / roll 13mm - 300m / roll 15mm - 150m / roll 18mm - 150m / roll	20mm - 150m / roll 25mm - 66m / roll 30mm - 66m / roll 35mm - 250m / roll 40mm - 250m / roll 50mm - 160m / roll
WEIGHT	Dependent upon sizes	

**TYPICAL DRAWING**



**INSTALLATION PROCEDURES**

► **PREPARATION**

For expansion joints in new concrete, brickwork, blockwork and masonry, construct both sides of the joint prior to fixing **UNIFLEX PE™ BACKER ROD**.

The joint surface must be clean, dry and free from oil, loose particles, cement laitance and other contaminants which may affect the adhesion. A thorough wire brushing, grinding, sand blasting or solvent cleaning may be required to expose a clean and sound substrate. Remove all round or sharp edges and corners which might perforate or cause damage to the backer rod.

► **APPLICATION**

Select a **UNIFLEX PE™ BACKER ROD** with diameter 10% to 20% greater than the width of the existing joint. This will ensure that the backer rod remains in compression and in place during sealant installation.

Cut the **UNIFLEX PE™ BACKER ROD** using a sharp knife to the desired length of the joint. Simply squeeze the backer rod into the joint to the desired level so as to create a slot to the specified depth of the subsequent joint sealant.

After the sealing slot has been created, sealing the joint with an appropriate sealant from the **UNISEAL™** range.



SITE PHOTOS



This technical data sheet is given in good faith and does not guarantee the application work. All Unity Reliance technical data sheets & method statements are updated on a regular basis and can be subject to change without notice. It is the users responsibility to obtain the latest version of the information required.



**UNITY RELIANCE (M) SDN BHD**

6-2, Jalan Meranti SD13/5, Bandar Sri Damansara  
52200 Petaling Jaya Selangor.

Website : <https://www.unityreliance.com>  
Email : [unityreliance88@gmail.com](mailto:unityreliance88@gmail.com)  
Tel : 03 - 6263 0139 / 010 - 785 1159