




ELEMENTS
QUÍMICA APLICADA

 **e⁵ BACKER**

Backer rod joint filler

Description

e⁵ BACKER is a closed cells, polyethylene foam, manufactured with cellular polyethylene. It is molded in various diameters, allowing better adaptability to different joint widths. As a backing material, it provides adequate contour to the sealant without binding to it. This allows the filler to expand and recuperate along with joint movements. This makes e⁵ BACKER particularly adequate for joints with variable widths.

It is used as sealant support or construction joint filler. It is used to control sealant application thickness. It contains 97 % (in volume) closed cells, thus, it does not free air or generate gases. Due to this, it recuperates its original volume when it is compressed and it can be used in joints with irregular dimensions. This allows its use in variable width joints.

Benefits

- Controls the depth of the sealant in exact relation to the width of the joint.
- It provides backing for sealant applications, so that the sealant will only have two faces for contact on the sides, thus allowing joint movement.

Principal applications

- It is used as base or filler in joints for highways, pavements and floors in general.
- It can also be used in structures and dividing walls, construction and expansion joints.
- It is good for sealing metal ceiling overlaps and as a base for elastic sealants, etc.
- Useful for metal boards, window frames and doors (to block air entry), and for prefab elements.

Directions for use

e⁵ BACKER must be compressed in the joint at the time of application. The diameter of the strip must be approximately 3 mm (1/8") greater than the width of the joint (see Table 2). e⁵ BACKER can be easily applied with a plane surface, pointless tool by pressing to the desired depth. Our BACKER ROD calibrated applicator or a stencil can be used to control the depth. Do not punch or fold.

Technical information

e⁵ BACKER is chemically inert and has low water absorption. It is resistant to gasoline and to most solvents. It does not stain. It is compatible with

Presentation

most of the cold-application commercial sealants. It complies with ASTM D 5249.

e⁵ BACKER is sold in the following diameters: 1/4", 3/8", 1/2", 5/8", 3/4", 1" and 2". They are rolled strips, packaged in boxes with different lengths, as shown in the following table, along with recommendations according to the joint width.

	Physical Properties	ASTM method
Type	1	D 5249
Consistency	foamed polyethylene	
Toxicity	no	
Density, (kg/m ³)	50 to 55	
Flammability	No	
Combustibility	Yes	
Color	gray	
Stability in original container, (months)	6	
Cellular structure	closed	
APPLIED PRODUCT		
Water absorption in vol., %	0.01	D 1016
Recuperation (memory), %	> 95	D 545
Useful range for temp., °C	-53 to +93	D 5249
Tensile strength, kg/cm ²	2.5	D 1623
25 % Compressive strength defl., (kg/cm ²)	1	D 545
Shrinkage, (%)	8	D 5249

Property		Value		Method/ Observations
mm	in	mm	in	
5	3/16	6	1/4	1219
6	1/4	10	3/8	640
10	3/8	13	1/2	762
13	1/2	16	5/8	472
16	5/8	19	3/4	335
19	3/4	25	1	182
44	1 3/4	51	2	73



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