

# ECA Backing Rod

## SEALANTS BACK UP MATERIAL

### DESCRIPTION

ECA Backing Rods are made from closed-cell polyethylene, offering non-absorbent, ultraviolet resistant, and weather-resistant properties. They are reliable for sealing joints and gaps in construction and insulation applications, providing long-lasting and effective protection.

### USES

ECA Backing Rods find application in various areas, notably in joints of pre-cast and cast-in-situ concrete elements. Their primary roles include providing support to the joint sealant application, ensuring proper joint sealant geometry (application depth and shape), and preventing the joint sealant from adhering to the top of the expansion joint filler board (3-way bonding). They act as a bond breaker, facilitating efficient and effective sealing of joints while maintaining their integrity and preventing unwanted adhesion.

### ADVANTAGES

- Non absorbent.
- No bitumen content.
- Lightweight.
- Ability to compress and recover.
- Excellent weather ability.
- Acts as a bond breaker.
- Resistant to ultraviolet light.
- Suitable for submerged and trafficked joints.

### APPLICATION

To ensure a tight and firm fit, it is recommended to choose a diameter or square section of ECA Backing Rod that is approximately 20% to 25% larger than the actual joint size. Apply the backing rod to the specified depth to prepare for the sealant application. This process helps create an effective and durable joint seal, providing optimal performance and preventing any potential issues associated with improper fitting or adhesion.

### TYPICAL PROPERTIES

Colour	White
Density	33 kg/m <sup>3</sup>
Compression Set	15 %
Compression Stress	13 KPa
Water Absorption	< 3 g/m <sup>2</sup> d
Elongation	80%
Tensile Strength	0.18 MPa
Application Temperature	-40°C to 95°C

### PACKAGING

ECA Backing Rod is supplied as the following:

- Diameter: 6 mm - 50 mm

Note: Custom diameter and section sizes can be readily manufactured to meet specific requirements.

### Choice of Section

Width of Joint (mm)	Diameter (mm)
10	13
15	20
20	25
25	30
30	38

### STORAGE

ECA Backing Rod should be stored in a dry area and protected from exposure to heat.

## **HEALTH AND SAFETY**

For more information, please check the Material Safety Data Sheet.

## **CONTACT**

Al-Faiha for Engineering Products is the exclusive licensee manufacturer for ECA.

For more information, please contact us at [techsupport@alfaihaengineering.com](mailto:techsupport@alfaihaengineering.com).

## **DISCLAIMER**

ECA aims to ensure the accuracy of information and recommendations in the product literature. However, due to variations in materials, substrates, and site conditions, and without control over product application, storage, weather, and usage conditions, ECA cannot be held liable for any resulting issues.