

## Technical Data Sheet

# Adheseal Backing Rod Closed Cell

Closed Cell Backer Rod For Joints In Construction

# Adheseal

*The Adhesive and Sealant Specialists*

## Description

Adheseal Closed Cell Backing Rod is manufactured from closed cell, low density white polyethylene foam, which is resistant to weathering and most chemicals. This flexible backing rod has excellent compression and recovery properties and has minimal water absorption due to the closed cell structure. The round foam profile shape enables the applied sealant to form the correct profile for optimum movement.

## Uses

- A bond breaker preventing 3 sided sealant adhesion
- For use behind cold applied Acrylic, Silicone, PU, MS, SPUR, Hybrid and other types of sealants
- When correctly installed ensures the sealant thickness is half its width
- Used in expansion joints, window glazing, precast panels and bridge construction
- Ideal for Horizontal joints subjected to damp.

## Acceptable Substrates

- Masonry, Brick, Stone Porcelain
- Metal, Aluminium
- Timber
- Plastics, Fibreglass
- Painted, surfaces
- Rubber
- Powder coat
- Waterproof membranes.



## Benefits

- User friendly.
- Non-toxic, low VOC meets "green star" environmental criteria.
- Suitable for internal & external applications
- Wide range of diameters up to 50mm.
- 95% recovery.
- Closed Cell
- Can be stretched, compressed or bent conforming to irregular shaped joints.
- Because of its resilience and coefficient of friction it will remain as placed.
- One size of foam can be used in a wide range of joint sizes.
- Being round and compressible, can be installed in continuous form in joint widths of large variation with reduced need to change backer rod sizes.
- Most Sealants do not adhere to closed cell backing rods. Preventing 3 sided adhesion
- Non-Staining: light in colour, odourless and non-staining
- Compressible 25% nominal
- Temperature range: temperatures of – 60dg .

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### Limitations.

Adheseal closed cell backing rod is NOT suitable for use in the following applications:

- Avoid excessive longitudinal stretching of the rod during installation.
- Consult our Technical Department for heat resistant quality for Hot poured sealants.
- Where sealant is heated and applied at a temperature above +70°C do not use as a backer.
- Not suitable for internal swimming pool applications. Avoid exposure to high levels of chlorine. (Maximum level is 5ppm).
- Not to be UV exposed

### Application

#### Surface preparation:

Adheseal Backer rod has no specific surface prep requirements, however the applied sealant does, it is highly recommended that these works be carried out prior to the installation of the backing rod. See relevant sealant TDS for specific requirements

#### Sealant joint design

Where possible, most sealants should be at a 2:1 ratio (width:depth). Adheseal closed cell foam-backing rod should approximately be 25% larger than the joint width, to ensure backer rod will stay in place during sealant installation.

See relevant sealant TDS for specific requirements

### Installation:

Fill the prepared joint completely taking care not to entrap air (entrapped air may cause bubbles in the sealant).

The use of the Backing Rod Insertion Tool (TOOLBACKROD) is recommended to ensure the Backing rod is installed at the correct depth.

Care must be taken during installation not to damage the outer surface of the backer rod, in doing so the integrity of the applied sealant may be compromised.

When the depth of the joint does not allow for backer rod a bond breaker tape is required to prevent three-sided adhesion.

### Colour

White

### Packaging

Binder Twine packaging: is packaged in continuous length bales. Adheseal backing rod is designed to be dispensed from the centre of the bale.

Stock Code	Description
FOAMCC/6	Closed Cell Foam 6mm x 250mt (18 per Ctn)
FOAMCC/10	Closed Cell Foam 10mm x 250m (6 per Ctn)
FOAMCC/13	Closed Cell Foam 13mm x 50m (24 per Ctn)
FOAMCC/15	Closed Cell Foam 15mm x 50m (16 per Ctn)
FOAMCC/20	Closed Cell Foam 20mm x 50m (10 per Ctn)
FOAMCC/25	Closed Cell Foam 25mm x 50m (6 per Ctn)
FOAMCC/30	Closed Cell Foam 30mm x 50m (4 per Ctn)
FOAMCC/40	Closed Cell Foam 40mm x 2 Metre (80 x 2m Per Ctn)
FOAMCC/50	Closed Cell Foam 50mm x 2 Metre (Box 50 x 2 Metre )
TOOLBACKROD	Backing Rod Insertion Tool

### Note:

Before application, refer to all relevant TDS's and SDS's detailed product specifications & application instructions.

### Specification:

The information contained in this TDS is typical but does not constitute a full specification as conditions and specific requirements may vary from project to project. The instructions should be considered as a minimum requirement. The applicator or contractor must use their skill, knowledge, and experience to carry out additional works as may be necessary to meet the requirements of the project. Specification for specific projects should be sought from the company in writing.

Backer Rod Parameters		
Closed Cell Round		
Size	Minium	Maximum
6	3.6	
10	7.0	
13	10.0	
15	12.0	
20	14.0	15.0
25	16.3	18.8
30	19.8	22.5
40	27.6	30.0
50	35.0	37.5

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**Physical Properties**

Type of product	Polyethylene foam
Density, ASTM D3575	0.032 g/cm <sup>3</sup>
Tensile Strength. ASTM D3575	3.2 4.5 Kg/cm <sup>2</sup> psi
Compression Set. ASTM D3575	0.56 8.0 Kg/cm <sup>2</sup> psi
Compression Strength @ 25% compression ASTM D3575	0.56 8.0 Kg/cm <sup>2</sup> psi
Elongation. ASTM D3575	50 %
Thermal conductivity ASTM C177	0.040 W/m.k
Application temperature	-40°C to +70°C (Beyond capacity of all Adheseal sealants)
Storage: Cool Dry between	10°C and 35°C keep out of direct sunlight
Service Temp	-40 °C — 60 °C
Tear Resistance (Long) ASTM D624-73	2.7 Kg/cm
Shelf life	5 years, when stored as recommended.
Chemical Resistance	Excellent to water, detergent solutions, Moderate diluted acids & alkalis, petrol & oil for short periods.

## Conditions Of Use and Disclaimer:

The information contained in this TDS is given in good faith based upon our current knowledge and does not imply warranty, express or implied. The information is provided, and the product is sold on the basis that the product is used for its intended purpose and is used in a proper workman like manner in accordance with the instructions of the TDS in suitable and safe working conditions. Under no circumstances will the Company be liable for loss, consequential or otherwise, arising from the use of the product.

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