

Technical Data Sheet

Adheseal Backing Rod Open Cell

Open Cell Backer Rod For Joints In Construction

Adheseal

The Adhesive and Sealant Specialists

Description

Adheseal Open Cell Backing Rod is a medium density, firm, open-cell extruded orange polyurethane foam, designed primarily as a "NON-GASSING backing rod in caulking and sealant applications, such as expansion joints



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
- It is also compatible with all known hot pour sealants, including silicone, rubber and asphalt.

Benefits

- User friendly.
- Faster cure for sealants, due to backer being breathable allowing sealant to cure from both sides.
- Non-toxic, low VOC meets "green star" environmental criteria.
- Suitable for internal & external applications
- Wide range of diameters up to 50mm, joint size of 37.5mm.
- 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 much wider range of joint sizes in comparison to closed cell polyethylene foam backing rod.
- Being Non-Gassing can be installed rapidly with any type of tool without regard for surface damage thereby eliminating the risk of sealant failures and repairs.
- Being round and compressible, can be installed in continuous form in joint widths of large variation with reduced need to change backer rod sizes.
- The adhesion to both open cell and closed cell backing rods is proven to be similar.
- Sealants subjected to dynamic movement will not be adversely affected by adhesion to Adheseal Backing rod due to its low surface strength and shearing capabilities.
- Non-Staining: light in colour, odourless and non-staining
- Compressible 25% nominal at 70 to 100 gms/sq-cm with an approx. density of 64 to 96 kg per cubic meter.
- Temperature range: temperatures of – 60oc up to intermittent temperatures of 260oc.

Brisbane North
Brisbane South
Sunshine Coast
Gold Coast
Toowoomba

26 Wolverhampton St, Stafford QLD 4053
8 Moss St, Slacks Creek QLD
18 Kessling Ave, Kunda Park QLD 4556
12 Distribution AV Molendinar QLD 4214
Mobile on the Darling Downs

PH (07) 3356 0000
PH (07) 3111 6666
PH (07) 5447 0022
PH (07) 5681 1111
PH 0427 006 548

Email sales@adheseal.com.au
Email slacks@adheseal.com.au
Email sc@adheseal.com.au
Email gc@adheseal.com.au
Email darlingdowns@adheseal.com.au

web: www.adheseal.com.au

Page 1 of 3

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Acceptable Substrates

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

Limitations.

Adheseal open cell Backer 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 open cell foam-backing rod 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

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

The open-cell polyurethane foam is to be compressed by no less than 24% of its original diameter and at least 75% of its original diameter when placed in joints. See table below

Backer Rod Parameters		
Round		
Size	Minium	Maximum
10	2.5	7.5
16	4.0	12.0
22	5.5	16.5
29	7.3	21.8
38	9.5	28.5
50	12.5	37.5
Square		
20	5.0	15.0
25	6.3	18.8
30	7.5	22.5
45	11.3	33.8

Colour

Pale orange

Brisbane North	26 Wolverhampton St, Stafford QLD 4053	PH (07) 3356 0000	Email sales@adheseal.com.au
Brisbane South	8 Moss St, Slacks Creek QLD	PH (07) 3111 6666	Email slacks@adheseal.com.au
Sunshine Coast	18 Kessling Ave, Kunda Park QLD 4556	PH (07) 5447 0022	Email sc@adheseal.com.au
Gold Coast	12 Distribution AV Molendinar QLD 4214	PH (07) 5681 1111	Email gc@adheseal.com.au
Toowoomba	Mobile on the Darling Downs	PH 0427 006 548	Email darlingdowns@adheseal.com.au

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Packaging

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

Stock Code	Description
FOAMOC/10	Round Open Cell Foam 10mm x 210m (5)
FOAMOC/16	Round Open Cell Foam 16mm x 150m (15)
FOAMOC/22	Round Open Cell Foam 22mm x 100m (11)
FOAMOC/29	Round Open Cell Foam 29mm x 60m (8)
FOAMOC/38	Round Open Cell Foam 38mm x 30m (6)
FOAMOC/50	Round Open Cell Foam 50mm x 20m (5)
FOAMSQ/2520	Backing Foam 25 x 20mm x 2 Metre (100-Bundle) (200-Bag)
FOAMSQ/4530	Backing Foam 45mm x 30mm x 2 Metre (100-Bundle) (200-Bag)
TOOLBACKROD	Backing Rod Insertion Tool

Physical Properties

Type of product	Polyurethane Foam
Density, ASTM D3574 A	32 ± 3.0 Kg/m ³
Tensile Strength, ASTM D3574 E	120< kPa
Compression Set, ASTM D3574 D	10> %
Indentation Force Deflection, 25%	340 ± 20 N ASTM D3574 B1
Elongation, ASTM D3574 E	90< %
Ball Rebound ASTM D3574 H	50> %
Application temperature	-40°C to +70°C (Beyond capacity of most Adheseal sealants)
Storage: Cool Dry between	10°C - 35°C keep out of direct sunlight
Service Temp	-60°C to intermittent 260°C
Shelf life	5 years, when stored as recommended.
Chemical Resistance	Excellent to water, detergent solutions, Moderate diluted acids & alkalis, petrol & oil for short periods.

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.

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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