

Technical Data Sheet

PU-240 Polyurethane Sealant

Single component moisture curing polyurethane construction sealant/adhesive

Adheseal

The Adhesive and Sealant Specialists

Description

Adheseal EVERFLEX PU-240 is a high modulus, high strength, moisture curing polyurethane construction adhesive sealant. Adheseal PU is tough durable pick resistant compound with exceptional mechanical and abrasion resistance.

Adhesive for light weight components. Everflex PU240 is specifically suited for structural bonding of construction materials especially where a high strength flexible bond is required

Due to this most versatile sealant having a high shore A hardness, being packaged in a cartridge it is ideal for small maintenance and installation works from domestic, factory installations, RV assembly to boat decks.

With its permeant elasticity and impressive bond strength EVERFLEX PU-240 is able to accommodate constant movement and vibration.

Uses

Adheseal PU 240 is specifically suited for.

- Perimeter sealing of windows.
- Curtain Walls, Masonry Joints.
- Metal cladding.
- Pavement joints, car parks, driveways
- General Building maintenance sealant/adhesive.
- Re Caulking marine type Teak Floors
- Seam sealing, Bolted lap joints
- Display signs in hostile environments.
- Vehicular and marine manufacturing

Benefits

- Flexible Structural Bond
- Fast curing
- Tear resistant
- Excellent green strength

- Excellent adhesion to most common building materials
- Once cured suitable for below waterline applications.
- Paintable with acrylic, oil, and rubber-based paints (confirm adhesion, non-flexible paint may crack)
- Excellent adhesion to most common building materials including powder coat (preliminary tests suggested)
- Sandable
- Non-corrosive
- Proven long term durability and resilient
- Ready to use – single pack cartridge
- Non-toxic, low VOC meets “green star” environmental criteria
- High permanent flexibility
- Suitable for internal & external applications
- Maintains a waterproof flexible joint
- Low odour
- Noncorrosive to most surfaces including galvanized/zinc coated steel and concrete.

Acceptable Substrates

- Masonry, Brick, stone.
- Metal (except lead & copper)
- Timber, Plastics
- Painted surfaces
- Rubber, Fibreglass
- Porcelain
- Aluminium
- Powder coat
- Waterproof membranes.

Before use a preliminary adhesion test is suggested.

For a more comprehensive list see Primer Selection Chart.

Brisbane North
Brisbane South
Sunshine Coast
Gold Coast
Toowoomba

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

PH (07) 3356 0000
PH (07) 3356 0000
PH (07) 5477 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 5

Technical Data Sheet

PU-240 Polyurethane Sealant

Single component moisture curing polyurethane construction sealant/adhesive

Limitations.

Adheseal EVERFLEX PU-240 is NOT suitable for use in the following applications:

- Totally confined spaces; as the sealant requires atmospheric humidity to cure, it will not cure where it does not have access to atmospheric humidity
- Aquariums
- Not suitable for internal swimming pool applications. Avoid exposure to high levels of chlorine. (Maximum level is 5ppm).
- Adhering mirrors (Hi-Power/MS609 can be used - test first)
- Structural glazing (N-80 or N-60 glazing silicone)
- All stone (we recommend the completion of a stain testing program before using any sealant on stone) - S100 is recommended for marble, granite (after stain test)
- Sealant may discolour copper & brass
- Do not expose the sealant to materials containing, cleaning agents, solvents and alcohol that may affect or discolour the sealant, particularly during product curing.
- Not to be used on bituminous, natural rubber, EPDM rubber surfaces or in conjunction with any compound that might leach oils, plasticisers or solvents.
- Avoid applying when moisture-vapor-transmission is emanating from the substrate and if air-entrapment can occur as this may cause bubbling.
- White tends to discolour / yellow slightly when exposed to ultraviolet rays.

Application

Surface preparation:

All surfaces must be structurally sound stable, dry, clean, and free of dust, loose, flaking, friable material and free from oils, grease, form release agents, curing compounds, and any other surface contamination that may hinder adhesion. Substrate must be free from surface water and continual dampness. Concrete must be allowed to cure for at least 28 days. Failure to do so may result in poor adhesion and subsequent delamination. Use the two-wipe process for impervious substrates. Ensure the cloths are clean and changed frequently and use a suitable cleaner/solvent such as Xylene. To achieve a neater finish and to avoid getting sealant on the

adjoining surfaces, mask joint edges with tape.

Priming:

Due to the high bond strength of Adheseal sealants adhesion is very often achieved without priming on most substrates. However, for optimal adhesion and critical high-performance applications, such as on multi-story buildings, highly stressed joints, extreme weather exposure or water immersion, the following priming/or surface preparation should be followed.

Non-porous substrates:

Aluminium, waterproof membranes, anodized aluminium, stainless steel, PVC, galvanized steel, powder coated metals or glazed tiles; slightly roughen surface with a fine abrasive pad. Clean and pre-treat using Adheseal 50A surface prep applied with a clean cloth. Once primed allow no less than 30 minutes and no longer than 2 hours before applying the sealant/adhesive. For metals, such as copper, brass and titanium-zinc and plastics such as PVC an adhesion test is advised.

Porous substrates:

Concrete, aerated concrete and cement-based renders, mortars and bricks: prime surface using Everflex Supaprime applied by brush. Once primed allow no less than 30 minutes and no longer than 2 hours before applying the sealant/adhesive. For more detailed advice and instructions contact Adheseal Technical Services. Note: primers are adhesion promoters and not an alternative to improve poor preparation / cleaning of joint surfaces.

Primers also improve the long-term adhesion performance of the sealed joint. Avoid excessive application of primer as this can cause puddles at the base of the joint.

Test for adhesion is always recommended, also refer to the Adheseal primer selection chart.

Sealant joint design

Where possible, the sealant should be at a 2:1 ratio (width:depth). For internal joints the width and the depth of the joint should be minimum 5mm, and for external joints 12mm. For joints greater than 10mm deep a backing rod should be used. Use an open cell foam-backing rod 25% larger than the joint width, to control the depth of the joint sealant. The sealant should only be fixed to two surfaces to allow movement. Hence on flat joints use a polyethylene tape or release agent to prevent 3-sided adhesion.

Brisbane North	26 Wolverhampton St, Stafford QLD 4053
Brisbane South	8 Moss St, Slacks Creek
Sunshine Coast	18 Kessling Ave, Kunda Park QLD 4556
Gold Coast	12 Distribution AV Molendinar QLD 4214
Toowoomba	Mobile on the Darling Downs

PH (07) 3356 0000

PH (07) 3356 0000

PH (07) 5477 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

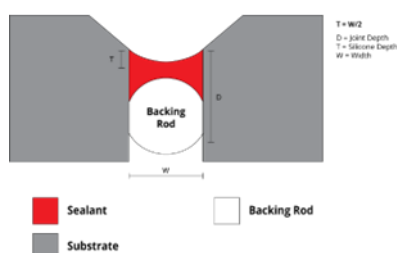
Technical Data Sheet

PU-240 Polyurethane Sealant

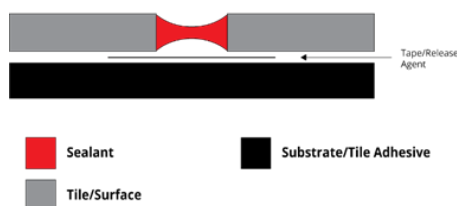
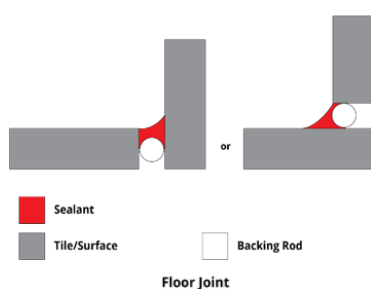
Single component moisture curing polyurethane construction sealant/adhesive

Width	Depth
10mm	5-8mm
15mm	7-10mm
20mm	10mm
25mm	12mm

Optimum Joint Design



Floor to Wall Joint



EVERFLEX PU-240 Installation:

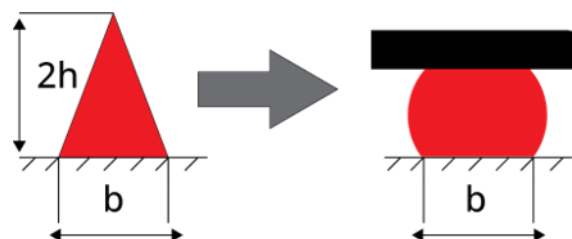
Where required use Adhefoam open cell backer rod. Closed cell backer rod is also suitable but care must be taken not to damage the outer skin of the rod as this can cause gassing (bubbles) in the sealant. When the depth of the joint does not allow for backer rod a bond breaker tape is required to prevent three-sided adhesion.

Apply at temperature between 5°C to 40°C.

To apply EVERFLEX PU-240 as a sealant: cut nozzle at 45° angle to desired thickness. Cut opening on cartridge and fix

nozzle. Insert cartridge into caulking gun. Hold gun at 45° angle with nozzle in contact with both sides of joint. Apply by pushing sealant ahead of nozzle, thus ensuring sealant is pushed firmly into place, in a steady continuous bead ensuring good contact with both sides of the joint to achieve the required adhesion. Fill the prepared joint completely taking care not to entrap air (entrapped air may cause bubbles in the sealant).

To apply EVERFLEX PU-240 as an adhesive: cut nozzle at 90° angle to the width of the desired bead, then cut a wedge in the nozzle twice the height as the width of the bead. Cut opening on cartridge and fix nozzle. Insert cartridge into caulking gun. Hold gun at a 90° angle with nozzle flat on the surface. Dispense the sealant following the nozzle, thus ensuring sealant is standing in place, in a steady continuous triangular bead. Bring the two surfaces together compressing the triangular bead to no less than 2mm ensuring good contact with both sides of the joint to achieve the required adhesion.



Tool off with a moistened spatula to finish the joint smoothly before the skin forms, approximately 5 minutes. While the sealant is still wet, clean off any excess. If joint edges have been masked, remove tape whilst the sealant is still wet.

If the sealant has dried on the surface, clean with solvent to soften then scrape off with a blade.

The incompatibility of some substrates may cause discolouration of sealant, poor sealant adhesion or long-term degradation of the sealant. Always carry out compatibility tests where contact with potentially incompatible materials occurs.

Masking: It is recommended to use masking tape where neat or exact joint lines are required. Remove the tape within the skin time after finishing.

Coverage

Coverage will vary according to joint width and depth, as well

Brisbane North 26 Wolverhampton St, Stafford QLD 4053
Brisbane South 8 Moss St, Slacks Creek
Sunshine Coast 18 Kessling Ave, Kunda Park QLD 4556
Gold Coast 12 Distribution AV Molendinar QLD 4214
Toowoomba Mobile on the Darling Downs

PH (07) 3356 0000
PH (07) 3356 0000
PH (07) 5477 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 3 of 5

Technical Data Sheet

PU-240 Polyurethane Sealant

Single component moisture curing polyurethane construction sealant/adhesive

as the type and method of application. The figures below can be used as a guide for:

Adheseal Sealant Calculator			
Joint Size mmXmm	M per ctg	M Per ssg	M per Lt
6 X 6	8.3	16.7	27.78
10 X 6	5.0	10.0	16.67
10 X 10	3.0	6.0	10.00
12 X 12	2.1	4.2	6.94
15 X 8	2.5	5.0	8.33
15 X 15	1.3	2.7	4.44
20 X 10	1.5	3.0	5.00
20 X 20	0.8	1.5	2.50
25 X 12	1.0	2.0	3.33

Triangular Joint Beads	
Joint Size mm Width x Height	Lm Per Sausage
5x5mm	50
10x10mm	12
10x15mm	6
10x20mm	3

Cure Time.

Allow approximately 10 minutes skin time, cure time 4mm per 24 hours from surfaces exposed to atmosphere @25dg & 50% humidity. Please note all cure times vary depending on atmospheric conditions and porosity of the substrate.

Clean Up.

While the product is still wet, tools and spills can be cleaned with Xylene. Cured product can be removed by mechanical means.

For cleaning skin use Adheseal Hand Wipes.

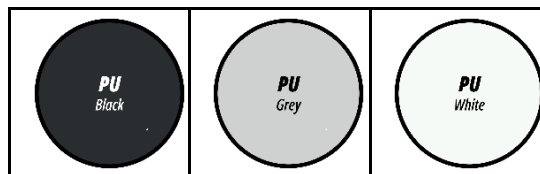
Colours

Black (9011) PU240BL/CTG

White (9003) PU240WH/CTG

Grey (7047) PU240GR/CTG

Number in brackets indicates closest RAL colour.



Other colours are available in batch quantities with extended lead times

Packaging

300ml Cartridge

Note:

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

When exposed to UV, Adheseal PU membranes may develop a "matt finish" in appearance and some minor surface cracking to a depth of 0.5mm this has no detrimental effects to performance of the sealant.

Adheseal B.A.T. Program (Bond Adhesion Testing) Program.

For over 15 years Adheseal has offered a service in which a program has been established to help eliminate potential site problems by pre-testing Adheseal sealants and adhesives with most building materials to which our Sealants and adhesives are applied.

This service is available for projects where pre-installation testing of our products will aid in determining the best application methodology achieve optimum adhesion. Contact your Adheseal representative for further information.

Brisbane North
Brisbane South
Sunshine Coast
Gold Coast
Toowoomba

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

PH (07) 3356 0000
PH (07) 3356 0000
PH (07) 5477 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 4 of 5

Technical Data Sheet

PU-240 Polyurethane Sealant

Single component moisture curing polyurethane construction sealant/adhesive

Physical Properties

Type of product	Polyurethane Sealant
Curing system	Moisture Cure
Shore A Hardness (ISO 868)	35
Working Time	20 min @23°C & 65% RH
Skinning Time	30 min @23°C & 65% RH
Cure Time	4mm / 24 hrs
Application Temp	5°C to 35°C
Service Temp	-40°C to +90°C
Chemical Resistance	Excellent to water, detergent solutions, diluted acids & alkalis, petrol and oil for short periods
Consistency	Paste
Movement Capability	+ or - 25%
Storage: Cool Dry between	10°C and 35°C
Elongation at Break	80% (ISO 8339)
UV Resistance	Good
Density	1.17
VOC	California South Coast Air Quality management rule 1168 (76gm/ltr)
Shelf life	12 months in original packaging
UV Resistance	Good (paintable)

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 specif-

ic 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.

Health and Safety

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Consult doctor if symptoms persist. In case of unconsciousness, place patient stably inside position for transportation

Skin Contact: Immediately wash with water and soap and rinse thoroughly.

Eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

Ingestion: If swallowed, do not induce vomiting. Seek medical advice.

PPE for First Aiders: Wear gloves, apron, safety glasses, respirator. Use with adequate ventilation. If inhalation risk exists wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Available information suggests that gloves made from Nitrile Rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

Notes to physician: Treat symptomatically. Effects may be delayed. Treat symptomatically

DANGER



Brisbane North 26 Wolverhampton St, Stafford QLD 4053
 Brisbane South 8 Moss St, Slacks Creek
 Sunshine Coast 18 Kessling Ave, Kunda Park QLD 4556
 Gold Coast 12 Distribution AV Molendinar QLD 4214
 Toowoomba Mobile on the Darling Downs

PH (07) 3356 0000
 PH (07) 3356 0000
 PH (07) 5477 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 5 of 5