

Megaprene 40GG

Gun Grade moisture curing polyurethane construction sealant

Meets Spec. ASTM C-920 & SNJF Class 1 Elastomeric.



Adheseal

The Adhesive and Sealant Specialists

Description

Adheseal MEGAPRENE 40GG is a single component Gun Grade moisture curing polyurethane construction sealant/adhesive, designed for movement and connection joints on indoor and outdoor sealing applications.

Megaprene 40GG is tough durable and has excellent chemical resistance. Resistant to intermittent fuel spills.

With its high elasticity, MEGAPRENE 40GG is able to accommodate movement up to 25% of the original joint width. It is particularly easy to apply and smooth, curing to form a permanently elastic and dustproof joint seal, between different elements in the construction, mechanical engineering, shipbuilding, vehicular, manufacturing, etc industries.

Uses

- Perimeter sealing of windows
- Sealing Curtain walls
- Expansion joints in precast / tilt up panels
- Metal cladding & Bolted lap joints
- Pavement joints, car parks, driveways
- General construction sealant/adhesive
- Adheres to most common construction materials, metal, wood, concrete
- Floor mouldings and skirting boards
- Acoustic ceiling tiles
- Seam sealing
- Aluminium fabrication
- Skirting boards
- Sealing materials of different thermal exposure coefficients
- Fibreglass
- Vehicular and marine manufacturing.

Benefits

- Fast curing (FC)
- Paintable with acrylic, oil, and rubber-based paints (confirm adhesion, non-flexible paints may crack)
- Tear resistant
- Suitable for contact with Potable water, tested to AS/NZS 4020
- Excellent adhesion to most common building materials including powder coat (preliminary tests suggested)
- Passed UV testing as per ASTM C793
- Tested to AS1530.3 Low Ignitability.
- Movement capability of ± 25 (ASTM C 719)
- Once cured suitable for below waterline applications.
- Resistant to intermittent fuel spills.
- Proven long term durability and resilient
- Ready to use – single pack, user friendly
- Non-toxic, low VOC meets “green star” environmental criteria
- Inhibits mould and biological growth
- High permanent flexibility
- Suitable for internal & external applications
- Resists mould & mildew in hot and humid environments
- Joint movement capabilities $\pm 25\%$
- Maintains a waterproof flexible joint
- Low odour
- Noncorrosive to most surfaces including galvanized/zinc coated steel and concrete.

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Limitations.

Adheseal MEGAPRENE 40GG 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.

Acceptable Substrates

- Masonry, Brick, Stone, Porcelain
 - Metal, Aluminium (except lead & copper)
 - Timber
 - Plastics
 - Painted surfaces
 - Rubber
 - Fibreglass
 - Powder coat
 - Waterproof membranes.
- Before use a preliminary adhesion test is suggested.

For a more comprehensive list see Primer Selection Chart.

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.

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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.

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

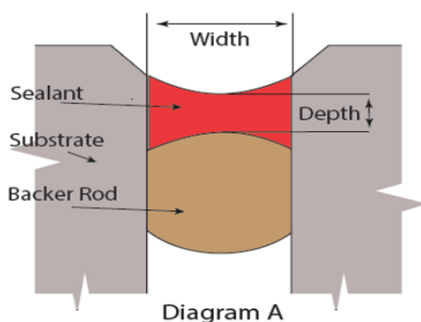


Diagram A

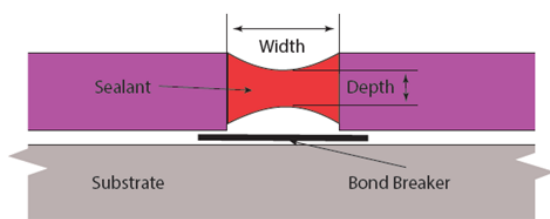


Diagram B

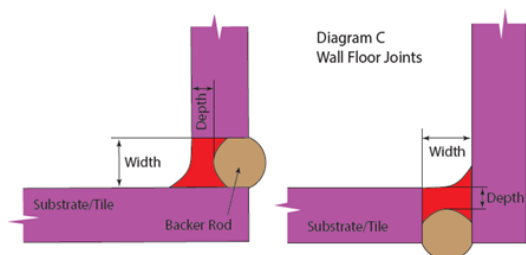


Diagram C
Wall Floor Joints

MEGAPRENE 40GG 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 MEGAPRENE 40GG as a sealant: cut nozzle at 45° angle to desired thickness. Cut opening in sausage. Insert sausage and nozzle into sausage 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 MEGAPRENE 40GG 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 in sausage. Insert sausage and nozzle into sausage 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.

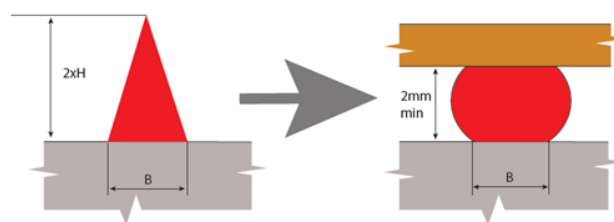


Diagram D

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.

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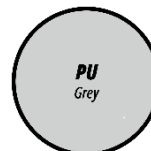
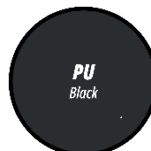
Masking: It is recommended to use masking tape where neat or exact joint lines are required. Remove the tape within the skin time after finishing.

Colours

Concrete Grey (7047) MEGA40CGR/SSG

Black (9011) MEGA40BLK/SSG

Number in brackets indicates closest RAL colour.



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

Packaging

600ml Sausage

Notes:

Before application, refer to all relevant TDS's and SDS's detailed product specifications and application instructions. When exposed to UV, Adheseal PU sealants do develop a matt finish in appearance, and some minor surface crazing is possible, which in turn establishes a UV barrier between the surface and the of the underlying sealant.

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.

Coverage

Coverage will vary according to joint width and depth, as well as the type and method of application. The figures below can be used as a guide for:

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 3mm 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.

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Physical Properties	
Type of product	Polyurethane
Curing system	Moisture
Cure Time	3mm / 24Hours
Density (specific gravity)	Black:1.15. Others 1.16±0.02
Shore A Hardness	25 after 14 days
Joint Movement Capability	+/- 25%
Tear Strength (ISO 34)	6.5N/mm
Elongation to break ISO 8339	>400%
Modulus Elongation ISO 8339	0.4 MPa @ 100%
Application temperature	+5°C to +35°C
Service Temp	-40°C to +80°C
Working Time	25m @ 23°C & 50% RH
Skinning Time	60m @ 23°C & 50% RH
VOC	2010/75/UE ISOLEMFI 50134C Mono <1.5g/l
Shelf life	12 months in original packaging
Storage: Cool Dry between	10°C and 35°C
UV Resistance 500h	Good
Chemical Resistance	Excellent to water, detergent solutions, Moderate diluted acids & alkalis, petrol & oil for short periods.
Sealant Classification as per ISO 11600	Type F Class 25 LM
Accelerated testing for UV & Weathering Tested beyond ASTM C793-05, ISO11431 & ISO EN 14187-8	No chalking, no cracks Yellowing
AS1530.3 Test report 23-000124 AWTA	Ignitability Index 0. Spread of Flame Index 0 Heat Evolved Index 0 Smoke Developed Index 0-1
VOC European 2004/42/CE	95 gm/lt
Colours	Black & Grey
Packaging	600ml Sausages

Sealant Classification as per ASTM C920	Type S, Grade NS, T1
ASTM C794. Adhesion in Peel	Pass: Mortar & Aluminium
ASTM C719. Adhesion & Cohesion under cyclic Movement	Pass: Mortar & Aluminium
ASTM C510. Stain & colour change	Pass
AS/NZS 4020 For use with potable water	Suitable for contact with Potable water

Health and Safety

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

Inhalation: Supply fresh air. If required, provide artificial respiration. Keep patient warm. 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



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