

Technical Data Sheet

High Power 609

High Power 609 Instant Grab Adhesive

Adheseal

The Adhesive and Sealant Specialists

Description

Adheseal Hi-Power is a one component elastomeric MS adhesive/sealant with 1 second immediate grab.

The most versatile high strength adhesive and sealant, with incredible high-end strength, also adheres to damp surfaces.

Uses

- Hi-Power can be used for bonding different materials likely to be submitted to vibrations or deformation in the building or industrial applications.
- Hi-Power has excellent adhesion to most common construction materials including ceramic, plaster, glass, wood, PVC, painted surfaces, most metals, polystyrene, stone polyester, epoxy etc.
- Sealing and bonding in the Sign and display industries.
- Elastic bonding of panels, profiles and other pieces on the most common substrates (wood, MDF, chipboard, etc).
- Elastic structural bonding in Vehicular, Caravan, Marine and Trailer industries

Benefits

- Instant grab reducing the need for initial support.
- Good extrudability.
- High shear strength after full cure (no primer).
- Remains elastic after curing & very sustainable.
- Can be painted with water-based products.
- Exceptional weather and UV resistance.



- Doesn't contain isocyanates or silicones.
- Good adhesion even on slightly moist substrates.
- Ready to use – single pack.
- Rapid drying.
- Non-toxic, low VOC meets “green star” environmental criteria.
- Compatible with all common building materials
- Suitable for internal & external applications
- Low odour
- Will not corrode galvanized/zinc coated steel or concrete.

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Acceptable Substrates

- Laminated kitchen benches
- Aluminium, Most metals
- Enamel, Glass
- Porcelain
- Ceramic
- Plaster
- Wood
- Painted surfaces
- Polystyrene
- Stone
- Fibreglass, Polyester
- Epoxy
- Powder coat

Limitations.

- Adheseal High Power 609 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
- Structural Glazing (N-80 or N-60 Glazing silicone).
- Sealant may discolour copper & brass.
- Do not clean or treat the sealant with materials, cleaning agents or solvents that may affect or discolour the sealant, particularly during product curing.
- Do not use in closed rooms. Do not expose to thermal, mechanical or chemical influences before complete vulcanisation.
- On polyacrylate and polycarbonate, structural glazing: see technical service department.
- Avoid Contact with uncured polyurethanes during curing.
- The drying time of alkyd resin-based paints may increase.
- Due to the fact that specific substrates such as plastics, like polycarbonate, etc, may differ from manufacturer to manufacturer, we recommend preliminary compatibility test.
- For optimum adhesion the use of 50A primer is recommended.
- Contact with bitumen, tar or other plasticizer releasing materials such as EPDM, neoprene, butyl, etc. is to be avoided since it can give rise to discolouration and loss of adhesion.

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, 100% White Spirits.

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 or extreme weather exposure the following priming/or surface preparation should be followed. Hi-Power has exceptional adhesion to most common building materials without the use of a primer. (Testing is recommended)

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 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 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.

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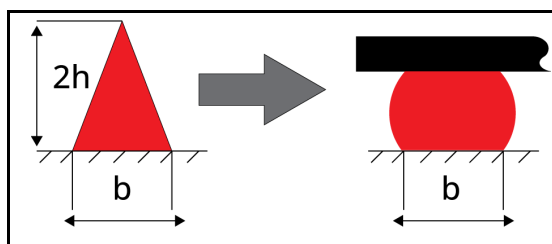
Primers also improve the long-term adhesion performance of the sealed joint. Avoid excessive application of primer as this can cause puddles behind the adhesive.

However, for heavier elements, mechanical holding may be required until the adhesive has cured sufficiently.

The optimal bond thickness for this product is at least 2 mm for the elastic properties to come to full justice.

High Power 609 Installation:

Apply at temperature between 5°C to 40°C. Use a triangular nozzle. Insert cartridge or sausage into caulking gun. Hold gun at 90° angle with nozzle in contact with the surface. Apply by dispensing the adhesive behind the nozzle, thus ensuring sealant is standing in a triangular bead twice the height as its width, as shown in the diagram above. While the adhesive is still wet, press the load onto the adhesive ensuring the adhesive remains at least 2mm thick, for the elastic properties to function at their optimal performance.



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.

Hi-Power can be applied by pneumatic, cordless or hand gun.

Use a triangular nozzle in beads of 5 to 10cm apart according to the weight of the item to be applied.

It is possible to apply heavy materials vertically without mechanical holding. However for heavier elements, mechanical holding may be required until the adhesive has cured sufficiently.

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 Beads		
Width x Height	Lm Per CTG	Lm Per SSG
5x10mm	12	24
10x20mm	6	12
15x30mm	4	8

Cure Time.

Allow approximately 10 minutes skin time, 2mm per 24hours cure time @ 25dg & 50% humidity. Please note all cure times vary depending on atmospheric conditions and porosity of the substrate.

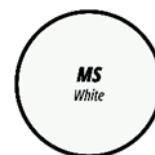
Clean Up.

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

Colours

Stark White (9003) .

Number in brackets indicates closest RAL colour.



Packaging

300ml cartridge MS609/CTG

600ml Sausage HIPOWERM/SSG

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

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.

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Type of product	Hybrid Polymer
Curing system	Moisture cured
Density (specific gravity) ASTM D 1475	1.57 +/- 0.05
Consistency	Thick Paste
Sagging	None
Skin time at 23°C and 50% RH	10 to 30 min
Cure rate at 23°C and 50% RH	2 mm per 24hr
Shore A Hardness (ISO 868) (3 sec) ASTM D2240	50 after 14 days
Temp Resistance	-40°C to + 100°C
Storage Temperature	5°C to 30°C
Application Temperature	+ 5°C to + 40°C
VOC	38 grams per litre
Shelf life	9 months from DOM
Elongation at Break ASTM D412	200%
Colours	White
Paintability	Yes
Tensile Strength at Break ASTM D412	1.02 Mpa
Tear Strength at Break ASTM D412	0.89 Mpa
Lap Shear Strength ASTM C961	1.1 Mpa
Wet Strength	Up to 400kg/m ² of coverage

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 re-

quirements 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.

Health and Safety

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

Inhalation: Remove to fresh air. Get medical attention if symptoms persist

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

Eye contact: Hold eyes open, flood with water for at least 15 minutes. Seek medical advice.

Ingestion: If swallowed, do not induce vomiting. Seek medical advice. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately.

PPE for First Aiders: Wear gloves, safety glasses. Available information suggests that gloves made from 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.

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