

Technical Data Sheet

HV Duct

High Velocity Duct Sealant

Fire tested to AS1530.3 Smoke Developed Index 3, AWTA Test Number 19-001488

Description

Single component, Fire Rated, High Strength acrylic duct and metal sealant

HV Duct is a acrylic sealing compound for sealing around High Velocity Air Ducts and Seams. Non-Slump, Paintable, Dust proof, Weather proof, Flexible, Excellent adhesion to most construction surfaces and Polystyrene foam, Excellent ageing properties **Fire tested to AS1530.3 to achieve a Smoke Developed Index of 3.**

It is exceptionally easy to apply and smooth, curing to form a permanently elastic and dust-proof joint seal. Forming a flexible gasket between different elements in the construction, mechanical engineering, shipbuilding, vehicular, manufacturing, etc industries.

Uses

- HVAC
- Air conditioning and duct work,
- Bus and trailer bodies.
- Sealing metal sheets to duct work other construction products.
- Suitable for use with polystyrene foam.
- Compatible with Neoprene Sponge Foam Tapes
- Aluminium window frames.
- For use in Dust extraction systems

Benefits

- Paintable
- Water Clean up
- Excellent Adhesion to most common building products.
- Retains Flexibility
- Fire tested to AS1530.3
- Ready to use – Single pack.
- Rapid Drying
- Non-Toxic, Low VOC Meets “Green Star” environmental criteria.
- Inhibits mould and biological growth.
- Compatible with most common building materials
- Suitable for Internal & External Applications
- Resists mould & mildew in hot and humid environments



- Joint movement capabilities $\pm 5\%$
- Odourless once cured
- Will not corrode galvanized/zinc coated steel or attack concrete.

Limitations

Adheseal HV Duct is NOT suitable for use in the following applications: -

- Do not apply below 5°C.
- Do not expose to continuous water flow.
- Do not apply in wet or damp conditions, external applications should be protected from rain for up to three days.
- 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
- Adhering Mirrors (High Power 609 can be used - test first)
- Structural Glazing (N-80 or N-60 Glazing silicone).
- Composite panels- (Adheseal recommends Hi Flex 60 subject to test first)
- Under Water Applications (including swimming pools)
- Below Grade Applications

Adheseal

The Adhesive and Sealant Specialists

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HV Duct ideal for

- Aluminium
- Metal

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. 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. To achieve a neater finish and to avoid getting sealant, mask joint edges with tape.

Priming:

Test for adhesion is recommended, where the use of Primer is necessary, it must be applied with a small brush onto the appropriate areas of the joints and left to dry for several minutes to allow the solvent to evaporate, 50A for non-porous & 2001 for porous substrates.

HV Duct Installation:

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

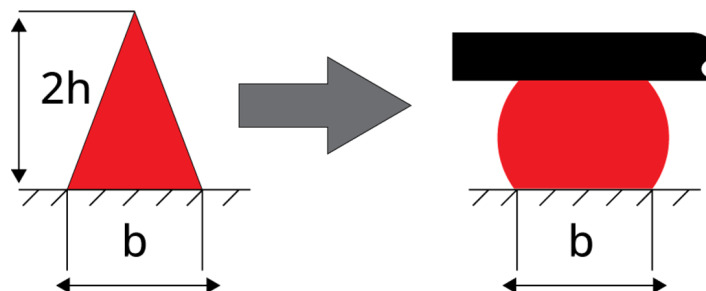
To apply HV Duct as a sealant: Cut nozzle at 45° angle to desired thickness. Cut opening on cartridge and fix nozzle. Insert cartridge into caulking gun. Hold gun at 45° angle with nozzle in contact with both sides of joint. Apply by pushing sealant ahead of nozzle, thus ensuring sealant is pushed firmly into place, in a steady continuous bead ensuring good contact with both sides of the joint to achieve the required adhesion.

To apply HV Duct 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. See drawing.

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 white spirit solvent to soften the sealant then scrape off with a blade.

The incompatibility of some substrates may cause discoloura-

tion of sealant, poor sealant adhesion or long-term degradation of the sealant. Always carry out compatibility tests where contact with potentially incompatible materials occurs. Adheseal has tested HV Duct on many surfaces, confirmation of tests can be provided on request.

**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:

Flat Joints.

Joint Size mm Width x Depth	Lm Per Cartridge
5x5mm	12
10x5mm	6
20x10mm	1.5
25x12mm	1.1

Triangular Joint Bead

Joint Size mm Width x Height	Lm Per Cartridge
5x5mm	25
10x10mm	6
10x15mm	3
10x20mm	1.5

Cure Time.

Allow approximately 15-20 minutes skin time, 2mm per day 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 water. Cured product can be removed by mechanical means.

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Grey

Packaging

300ml cartridge

Physical Properties

Type of product	Acrylic Polymer
Curing system	Moisture Loss
Density (specific gravity)	1.5
Consistency	Paste
Clean Up	Water
Application temperature	5°C– 35°C
Storage: Cool Dry between	5°C–32°C
Service Temperature:	-5°C– 80°C
Movement Capability	5% +/-
Tack Free(@25°C)	15-20min
Chemical Resistance	Excellent to water, detergent solutions, diluted acids & alkalis and oil for short periods.
Ignitability Index As1530.3	11
Spread of Flam Index As1530.3	0
Heat Evolved Index As1530.3	0
Smoke Developed Index As1530.3	3
Cure Speed	4–48 Hours
Shelf life	24 Months
VOC (Californian South Coast Air Quality Management Rule 1168)	22gm/lt
Colour	Grey
Test certificates to AS:	AS/NZ 1530.3 –1999

Note:

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

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.

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.

Health and Safety

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

Inhalation: Remove person to fresh air and keep comfortable for breathing.

Skin Contact: Wash skin with water and soap and rinse thoroughly

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

Ingestion: Do not induce vomiting; call for medical help immediately

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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. No further relevant information available