

Everflex Fire-fill

Fire Rated Acrylic Joint Sealant

Tested in accordance with AS1530.4 and assessed to AS4072.1



Adheseal

The Adhesive and Sealant Specialists

Description

Tested in accordance with AS1530.4 and assessed to AS4072.1, Everflex Fire-Fill is a waterborne co-polymer-based Intumescent Fire Rated acrylic sealant, suitable for both internal and external penetrations and expansion joints that require a fire-resistant seal. Everflex Fire-Fill expands when exposed to fire that forms an inorganic plug in around penetrations and expansion joints, assisting in preventing fire transmission through partitions within a structure. With exceptional UV and water resistance while retaining a high degree of flexibility, the non-slump properties, being paintable and easy to apply, Everflex Fire-Fill is an ideal Fire Rated sealant.

Uses

- Interior & exterior applications
- Joints between concrete, plasterboard, blockwork, fibre cement, Hebel block, speed panel and brick walls.
- Gap sealing around cables, metal pipes, conduits, busways and ducts which penetrate walls, floors and ceilings.
- Fire-fill has good STC acoustic properties when used in appropriate systems.
- Suitable for double sided and single sided application (exposed and non-exposed faces) where the integrity of the wall is adequate. (Up to 4hrs depending on joint configuration and panel thickness.)
- Expansion joints in precast / tilt up panels
- Thermal exposure coefficients

Benefits

- Premium quality, flexible construction sealant accommodating +20% joint movement.
- Up to 4-hour fire rating as tested in accordance with AS1530.4
- Excellent UV & weather resistance.
- Proudly manufactured in Australia.
- Fire rating for gaps up to 50mm
- Designed for Australian conditions

- Very easy to apply and gives a smooth finish
- Contains no Isocyanates
- Asbestos free
- Priming not normally required
- Can be applied to damp surfaces
- Water Clean up
- Paintable with acrylic, oil, and rubber-based paints (confirm adhesion, non-flexible paint may crack)
- Tear resistant.
- Excellent adhesion to most common building materials including powder coat (preliminary tests suggested)
- Non-corrosive
- Proven long term durability and resilient.
- Ready to use – single pack.
- Non-toxic, low VOC meets “green star” environmental criteria. 7g/L
- Compatible and exceptional adhesion with all common building materials: cementitious, brick, ceramics, glass, metals, wood, epoxy, polyester and acrylic resin substrates
- High permanent flexibility
- Suitable for internal & external applications
- Resists mould & mildew in hot and humid environments
- Maintains a waterproof flexible joint.
- Low odour

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Acceptable Substrates

- Building services' penetrations pipes, cable trays, conduits, and ducts.
- glass
- Hebel block and speed panels.
- plasterboard and cable coverings
- Masonry, Brick & Stone.
- Metal (except lead & copper)
- Timber
- Plastics
- Painted surfaces
- Aluminium

Before use a preliminary adhesion test is suggested.

For a more comprehensive list see Primer Selection Chart.

Fire Test Assessment Summary.

Linear gap seal installed in wall-wall Configuration:

- Plasterboard Wall.
- Rigid Wall.
- Aerated Concrete Wall.

Linear gap seal installed in wall-floor Configuration:

- Plasterboard Wall to Concrete Floor.
- Concrete Wall to Concrete Floor.
- Aerated Concrete Wall to Concrete Floor (Fire side exposure only).

Penetrations in Vertical Separating Elements:

- Protection using sealant in annular gap with additional sealant cone and 2 x layers of wrap and 50 x 70mm.
- Protection using sealant in annular gap with additional sealant cone.
- Protection using sealant in annular gap.
- Protection using sealant in full depth of SE with additional Sealant Cone.
- Protection using sealant in full depth of SE with 2x layers of wrap.
- Protection using ceramic fibre backing, FR PB Pattress, sealant in annular gap and 2 x layers of wrap.

Copy of test report available on request.

Limitations.

Adheseal Fire-Fill is NOT suitable for use in the following applications:

- Trafficable and load-bearing joints.
- Sealing coated metal panels such as Colourbond™
- Do not apply when rain exposure is likely within 24 hours of application.
- Do not apply to wet surfaces.
- Not suitable for long term water immersion.
- Not suitable for internal swimming pool applications. Avoid exposure to high levels of chlorine. (Maximum level is 5ppm).
- 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 (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).
- Do not expose the sealant to materials containing, cleaning agents, solvents and alcohol that may affect or discolour the sealant, particularly during product curing.
- Avoid applying when moisture-vapor-transmission is emanating from the substrate and if air-entrapment can occur as this may cause bubbling.

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.

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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 Adheseal 2001 or Everflex Supaprime primer 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.

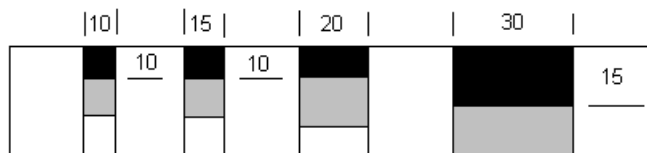
Primers also improve the long-term adhesion performance of the sealed joint. Avoid excessive application of primer as this can cause puddles at the base of the joint.

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-backer 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.

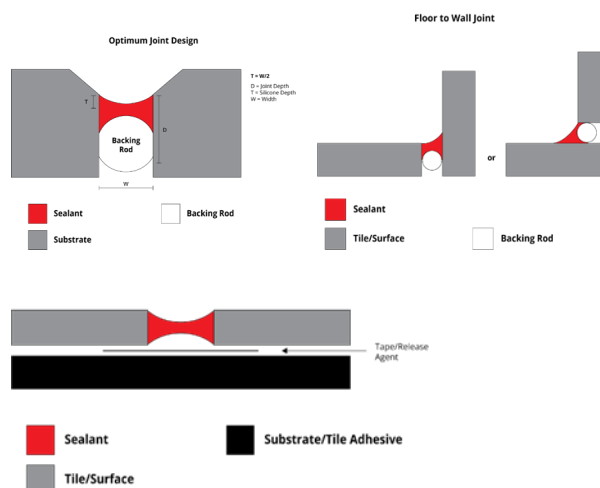
JOINT DIMENSIONS



■ Firefill Sealant

■ Adhefoam Backer Rod

Width	Depth
10mm	10mm
15mm	10mm
20mm	10mm
25mm	12mm



Everflex Fire-Fill Installation:

Fill the prepared joint completely taking care not to entrap air (entrapped air may cause bubbles in the sealant). Dry tool immediately before the sealant skins. Tooling time is a minimum of 10 minutes depending on temperature and humidity.

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.

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

To apply Fire-Fill 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).

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 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	Lm Per Sausage
5x5mm	50
10x10mm	12
10x15mm	6
10x20mm	3

Adheseal Sealant Calculator			
Joint Size mmXmm	Mper 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

Cure Time.

Allow approximately 30-45 minutes skin time, cure time 2mm 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 water. Cured product can be removed by mechanical means.

For cleaning skin use Adheseal Hand Wipes.

Colour

Grey FIREFILLGR/SSG

Packaging

600ml Sausage

Note:

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

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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.

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.

Physical Properties

Type of Product	Acrylic paste
Curing system	Evaporation of water
Density (specific gravity)	1.53
Intumescent expansion	Yes
Application temperature	+5°C to +35°C
Service temp: Cool Dry between	-10°C to +80°C
VOC	7gm/lt
Shelf life	12 months in original packaging
Full Cure at 20°C and 70% @20mm wide-10mm deep	7 days
Paintable	6-8 hours
Tack free @25°C	30-45 min
Working time	15 min
Max Joint dimensions	50 x 25mm
Movement capability	+ or - 20%

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.

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