LIQUID NAILS ADHESIVE FOAM

Polyurethane Adhesive Foam

TECHNICAL DATA SHEET

Description

Selleys® Liquid Nails® Adhesive Foam is a single-component polyurethane adhesive foam that provides high-strength, rapid-curing bonds for both vertical and horizontal construction applications. The formulation exhibits excellent gap-filling capability, enabling effective adhesion across a wide range of building materials. Its foaming technology improves substrate contact and bond performance while delivering significantly faster application and installation times than conventional construction adhesives.

Features

- Fast curing
- Easy and ready to use
- Excellent adhesion to most surfaces[1]
- CFC-free and ozone-safe hydrocarbon propellant
- Interior/Exterior[3]
- Easy to cut, sand and paint
- High bond strength
- Paintable[2]
- One can = ~8x construction adhesive (300ml)
- One can = ~1x AAC adhesive (15kg bag)

Usages

Selleys® Liquid Nails® Adhesive Foam can be used for

- Bonding common building materials
- Installing architraves, cornices, plasterboard, fibre cement and lightweight materials
- Adhering insulation boards and SIPs
- Bonding non-load-bearing construction blocks such as Autoclaved Aerated Concrete (AAC)

Product and Technical Information

Product Data		Technical Performance	
Technology	Polyurethane	**Tack Free Time**	5-10 min
Cure Mechanism	Moisture curing	**Working Time**	Up to 5 mins
Coverage (500 mL)	6.7 m^2 wall surface	**Cutting Time**	Approx. 45 mins
Colour	Orange	**Thermal Conductivity**	0.034 W/(m.K)
Shelf life	15 months	**Sound Reduction Index**	62 dB
Canister Temperature	+5 °C to +25 °C	**Service Temperature**	-50 °C to +90 °C
Ambient Temperature	-5 °C to +30 °C		

The table results are based on current product material data, quality test methods, and testing conditions, such as temperature, moisture, and substrate.

Substrate[1]

Porous

- Timber / Plywood
- Weatherboard
- Plasterboard
- Fibre Reinforced Cement
- Bricks
- Concrete
- Masonry
- Stone
- AAC – (Hebel®)

Non-porous

- Steel
- Powder-coated steel
- EPS
- Metals

Exception

- Not for use on polyethylene, polypropylene or PTFE (Teflon®).
- Pre-test adhesion compatibility with substrates before use.

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Standards & Conformities

AS 2329:1999 (E)	*Mastic Adhesives for Fixing Wallboards*
AS 2753:2018	*Adhesives- For Bonding Gypsum Plaster Linings to Wood and Metal Framing Members*

Method of Applications

Surface

- Ensure all surfaces to be filled are clean, sound, and free of dust, oil, rust, and other contaminants.
- Clean non-porous surfaces with a clean cloth dampened with IPA or white spirit, wiping in one direction only, then immediately followed by wiping with a clean, dry cloth.
- Remove all existing adhesives or sealants before use on remedial work.

Safety

- Remove the lid from the canister and use the gloves provided within the lid.
- Use eye protection such as goggles or a face shield.
- Warm the expanding foam to the recommended application temperature before using, or if stored below the recommended storage temperature.

Canister

- Shake the canister vigorously at least 20 times.
- Screw the application (straw) nozzle onto the canister valve. Do not over-tighten to avoid damaging the valve and to make applicator nozzle removal and replacement easy.

Application

- To ensure that the adhesive foam cures fully, mist the surface with clean water using a spray bottle.
- Turn the canister upside down and gently squeeze the base of the straw nozzle upward to apply pressure, triggering the adhesive foam to extrude.
- Additional mechanical fixings must be used in accordance with applicable building designs, codes, standards, and regulations when using construction adhesives.
- If a substrate is removed after placement, apply fresh adhesive before reinstalling.
- Allow excess adhesive to cure fully before trimming or removing with a suitable tool.

Bonding Wall Panels

- Apply adhesive foam to the reverse side of the panel in continuous, evenly spaced beads.
- Position beads 30-40 mm from the panel edges, with additional beads at maximum 250 mm centres, depending on panel size and weight.
- Allow the adhesive to react for 2-3 minutes before positioning the panel onto the substrate.
- Press the panel firmly into place and align or adjust for up to 5 minutes after installation

Bonding Skirting

- Apply continuous beads of adhesive foam to the reverse side of the skirting, positioning the beads 10-20 mm from the edges.
- Position the skirting and press firmly into place to ensure full contact with the substrate.
- Align as required and support where necessary until the adhesive has achieved sufficient strength.

Bonding Construction Blocks

- Apply two continuous beads of adhesive foam, approximately 20-30 mm in diameter, to the substrate and each subsequent construction block.
- Apply the adhesive to both horizontal and vertical bonding surfaces.
- Position and check alignment during installation and make any necessary adjustments before the adhesive begins to cure.

Note: Cure and handling times may vary depending on substrate type, temperature, and ambient humidity conditions. Refer to the Technical Data section for typical performance values.

Cleaning

Uncured Adhesive Foam

- Remove overspray and uncured adhesive foam from tools and equipment surfaces immediately using acetone. Prevent cured adhesive from contacting unwanted surfaces, as cured foam can only be removed mechanically.

Reuse

- After use, remove the applicator nozzle and clean both the valve and nozzle thoroughly with acetone.
- When cleaned and stored correctly, the adhesive foam may be reused for up to 4 weeks after initial use. If needed, replace the straw nozzle each use.

Paintability[2]

- Paint **Selleys® Liquid Nails Adhesive Foam** with water-based paint.

Limitations

- Do not apply if the ambient or substrate surface temperature is below -5 °C or above +30 °C
- Do not use for applications exceeding the temperature requirements below -50 °C or above +90 °C
- Do not store the expanding foam canister above +50 °C and near heat sources or in direct sunlight.
- Not recommended for continuous submersion or below water line use.
- Expanding foam requires atmospheric moisture to cure. On non-porous substrates or in low-humidity conditions, curing speed slows.
- [3]When used for exterior application, cured foam is reactive to UV-light. It is recommended to use a coloured sealant, filler, or paint over the foam when it is exposed to direct sunlight.
- **Selleys®** recommends users conduct their own risk assessment before use to determine the product's suitability. A sample should be applied to the intended area to ensure acceptable appearance, finish, and performance on the surface.

Storage

- Store unopened **Selleys®** Liquid Nails Adhesive Foam packaging upright between +5 °C and 27 °C in a cool, dry place away from direct sunlight.
- Unopened packaging is best used within 15 months from the date of manufacture.
- Do not store the expanding foam canister above +50 °C or near heat sources.
- Warm up the expanding foam to the recommended application temperature before using, or if stored below the recommended storage temperature.

Packaging

Canister Size	Available colour	Item Code
500 mL	**Orange**	**1170576**

Health and Safety

This information is available in the product Safety Data Sheet (SDS) on our website at www.selleys.com.au. Refer to the product label for full conditions.

Disclaimers

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