

## Technical Data Sheet

**Builders Nails****Solvent based synthetic rubber construction adhesive.****Adheseal***The Adhesive and Sealant Specialists***Description**

Builders Nails is a high strength multipurpose construction adhesive that will not slump on vertical surfaces. It has been formulated to be used as a one way liquid adhesive and as a two way contact adhesive. It offers a strong and lasting bond on most building substrates.

**Uses**

- Bonding wall mouldings, architraves, and skirting boards
- Display signs
- Interior and exterior applications
- Adhering scyon and particle board flooring.

**Benefits**

- Non slump
- Fast drying
- High strength
- Wet and dry timber
- Easily extrudable at low temperatures
- Paintable, acrylic, oil, and rubber-based paints (preliminary tests suggested)
- Tear resistant
- User friendly
- Good weathering and water resistance
- Non-corrosive
- Proven long term durability and resilient
- High pick resistance
- Ready to use – single pack
- Low odour
- Compatible and exceptional adhesion with all common building materials: cementitious, brick, ceramics, glass, metals, wood, epoxy, polyester and acrylic resin substrates
- Suitable for internal & external applications
- Noncorrosive to most surfaces including galvanized/zinc coated steel and concrete.



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**Builders Nails*****Solvent based synthetic rubber construction adhesive.*****Limitations.**

- Adheseal Builders Nails is NOT suitable for use in the following applications:
- Only apply to surfaces between 10°C and 30°C
- Do not use where continued elevated temperatures will occur
- Keep away from flames or sparks, flammable liquid 3
- Avoid use in tightly clamped joints e.g. Cabinet making joinery. Use Adheseal Unobond
- Not for metals heated by direct sunlight. Bonds weaken at higher temperatures. Use Adheseal PU50
- Not for styrene foam. Use Allflex 101
- Do not use as the sole bonding agent for structural bonding. Use Adheseal Unobond
- Not for permanent water immersion e.g. fish tanks, swimming pools
- Adhering mirrors (Adheseal Hi-power / MS609 can be used - test first)
- Structural glazing (Use N80 or N60 glazing silicone)
- Composite panels (Adheseal recommends Hi Flex Construction subject to test first)
- 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)

**Acceptable Substrates**

Builders Nails has excellent adhesion to most common substrates including:

- Masonry, brick, concrete
- Metal (except lead & copper)
- Timber, MDF, particleboard, weatherboards
- Plasterboard
- Stone
- Painted surfaces
- Rubber
- Fibreglass, plastics, polycarbonate
- Porcelain, tiles, ceramics, glass
- Aluminium
- Powder coat
- Waterproof membranes.

Before use a preliminary adhesion test is suggested.

**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 normally achieved without priming on most substrates. However, for optimal adhesion and critical high-performance applications, and highly stressed joints, if priming/or surface preparation is being considered, review the following.

**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.

**Builders Nails Installation:**

Cut tip off cartridge. Cut nozzle at 45° angle to desired thickness. Screw on nozzle to cartridge. Insert cartridge and nozzle into cartridge gun. Hold gun at 45° angle with nozzle in contact with bonding surface. Apply by pushing adhesive ahead of nozzle, thus ensuring adhesive is pushed firmly into place, in a steady continuous bead ensuring good contact with the surface requiring adhesion. Apply at temperature between 5°C to 40°C. Protect sealant from water until it dries.

**One way method**

Apply a 4 to 6mm bead with a cartridge gun.

Bring both substrates immediately together and clamp, nail or screw for a minimum of 24 hours.

For butt joints use adhesive on both panel edges.

To stop floors squeaking apply a bead into the groove of each panel before mating the tongue with the nest panel.

For flooring applications the adhesive should be applied to the flooring manufacturer's specifications.

**Two way method**

Apply adhesive as per the one way method and bring surfaces firmly together to transfer adhesive and then pull apart.

Allow to tack off for 3 to 5 minutes depending on weather conditions.

Reposition the objects and press firmly together. To ensure maximum contact tap surfaces together with hammer and padded blocks. Maximum bond will be achieved in 12 - 72 hours depending on weather conditions.

Heavy panels may require temporary mechanical fastening until maximum bond strength is achieved.

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.

**Coverage**

The required amount of adhesive used depends on the weight of what is being adhered. For light loads a spot bonding technique may be required whereas for heavy elements 100% coverage would be required. Not only does the volume of adhesive vary so does the cure time.

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:

Adheseal Adhesive Calculator			
Bead Diameter mm	M per ctg	M Per ssg	M per Lt
4	23.9	47.7	79.58
5	15.3	30.6	50.93
6	10.6	21.2	35.37
7	7.8	15.6	25.98

**Cure Time.**

Full cure is normally achieved in 5-7 days depending on bead size, conditions and substrates. Larger sections of sealant will take longer to cure.

**Clean Up.**

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

For cleaning skin use Adheseal Hand Wipes.

**Colours**

Beige

**Packaging**

300ml Cartridge, BUILDNAIL/CTG

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**Builders Nails****Solvent based synthetic rubber construction adhesive.****Physical Properties**

Type of product	Synthetic Rubber
Curing system	Solvent release
Density (specific gravity)	1.1
Consistency	Thixotropic liquid
Application temperature	+5°C to +35°C
Storage: Cool Dry between	10°C and 35°C
Shelf life	12 months in original packaging
Clean up	Mineral turps
Colour	Beige
Voc	300 gm per lt (California South Coast Air Quality Management Rule 1168)

**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 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.

**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 to achieve optimum adhesion. Contact your Adheseal representative for further information.

**Health and Safety**

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

Inhalation: Keep victim calm and remove to fresh air if safe to do so. Obtain medical treatment immediately.

Skin Contact: If skin contact occurs, remove contaminated clothing and wash skin thoroughly with water and follow by washing with soap and water. Seek medical attention, if irritation develops or persists.

Eye contact: If in eyes, hold eyes open, flood with water for at least 20 minutes. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Seek medical advice after flushing.

Ingestion: If swallowed, DO NOT induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Obtain medical treatment immediately.

PPE for First Aiders: Wear safety shoes, gloves, apron, chemical goggles. 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. Treat according to symptoms. Avoid gastric lavage: risk of aspiration of product to the lungs with the potential to cause chemical pneumonitis.



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