

LIQUID NAILS® HIGH STRENGTH

Description

Liquid Nails is a premium grade, solvent based, synthetic rubber multipurpose construction adhesive that delivers a consistently strong and lasting bond on most building substrates. It has a thick non-runny consistency. It is beige (light tan) in colour as applied and dry.

Uses

Liquid Nails is a high strength multi-purpose construction adhesive suitable for bonding timber, plasterboard, MDF, particleboard, masonry, concrete, tiles & ceramics, metals, plastics*, rubber and glass. It can be used as the sole means of bonding (as a contact adhesive) or as a component in a dual bonding situation, i.e. in conjunction with mechanical fasteners, or where nails or screws are used to support the weight until full cure is completed.

Liquid Nails would typically be used for the following applications:

- Sheet flooring to joists
- Metal or aluminium door strips to floors or walls
- Timber or fibre cement sheeting to cement block or brick walls
- Masonite / hardboard to timber or floor boards
- Wallboard or panelling to wood or metal frames
- Cork tiles to timber, fibre cement or plaster
- In the groove of tongue and groove flooring as it is installed to avoid later squeaking



Technical Features

- ▶ Meets or exceeds requirements specified by Australian Standard AS 2329-1999
- ▶ Liquid Nails formulation delivers response flexibility so your bond stays stronger for longer. [Liquid Nails is flexible enough to respond to normal shrinkage and thermal movement between building components without losing bond strength.]
- ▶ Excellent resistance to water and weather makes it suitable for interior and exterior applications
- ▶ Easy to extrude from the cartridge at low winter temperatures
- ▶ Fast grab and rapid cure, but does not skin too quickly, thus ensuring good wetting out on to surfaces to be bonded
- ▶ Does not roll off when applied onto wet timber, even in cold weather
- ▶ Resistant (after full cure) to heat to 90°C and cold to -10°C. See "Application Tips" below
- ▶ Does not drip, sag or string between panels
- ▶ Bridges gap up to 9mm hence can be used on rough and ill-fitting construction materials

Dried adhesive is paintable

Application Tips

- ▶ Should not be applied at temperatures below -5°C
- ▶ Not recommended for tightly clamped joints; e.g. cabinet making or joinery
- ▶ Liquid Nails Fast is preferred for styrene foam
- ▶ Not suitable for use on mirrors
- ▶ Bonds weaken at high temperatures (e.g. above 50°C). Avoid bonding metals or heavy materials which will be heated by direct sun, e.g. to metal roofing and siding. (Consult Selley's about particular applications subject to heating.)
- ▶ Not suitable for bonding materials in areas which will be constantly damp or wet

*Pre-test plastics to determine compatibility.

Bond Strength Time

Time for strong bond depends on nature and condition of application. In most situations** strong bond can be achieved after 24 hours and will continue to strengthen over 2-3 day period. Full cure up to 7 days.

** Curing is achieved by evaporation of solvent. Time to achieve full strength is increased: at constant low temperatures; when thick applications (joints) are used; wide areas are bonded; when bonded surfaces are impervious (e.g. metals and dense timbers). When fixing sheet flooring (e.g. particle board), use in conjunction with flooring manufacturers installation specifications for minimum nailing requirements. Note: to eliminate squeaks in tongue and groove flooring, apply a bead of liquid nails into the groove of each board when installing. Approx 6m² (2 standard sheets) of wall paneling or up to 1.5 metres of 5mm bead.

Technical Details and Performance

Indicative information only, not to be used for setting specifications.

Property	Requirement	Clause	Typical Results
Composition	-	-	Blend of synthetic resins and fillers dispersed in low molecular weight liquid hydrocarbon
Appearance	-	-	Beige coloured thixotropic paste
Density	AS2329 - (1999)	6.2	1.11 g/mL
Shelf Life	AS2329 - (1999)	6.3	12-18 months
Thermal Stability (When stored in cartridge)	AS2329 - (1999)	6.4	Exceeds 7 days (Complies with all tests after storage in unopened container @ 40°C)
Sag Resistance	AS2329 - (1999)	6.4	Not more than 6mm
Flow & Transfer	AS2329 - (1999)	6.5	Exceeds 75% transfer after 15 minutes drying
Open Time	-	-	20-30 min (depending upon prevailing conditions)
Initial bond strength In tensile shear	AS2329(1999)	6.7.1.1	Exceeds 200 kPa at 24 hours
Bond Strength in Tensile Shear (Dry and wet substrate)	AS2329(1999)	6.7.1.2 + 4	Exceeds 1 MPa
Bond Strength in Peel	AS2329 - (1999)	6.7.2.1	Exceeds 40N
Static Load in Shear	AS2329 - (1999)	6.8	Exceeds 10 days sustaining a 40N load @ 40°C
After accelerated aging	AS2329(1999)	6.6 & 6.7	Test assemblies meet or exceed requirements after 500 hours @ 70°C

PRODUCT CODE	SIZE & PACK TYPE	COLOUR
930069710683401	900g	Beige
9300697106711	100g tube	Beige
930069710007801	320g cartridge	Beige
930069710973605	20 pack	Beige

For additional information including Material Safety Data Sheets visit www.selley.com.au. To obtain more detailed technical, usage and safety information including Technical Data Sheets phone Selleys on 1300 555 205.