

NEMPAL® 151 GP Why Nail™

General-Purpose Solvent-Based Construction Adhesive Sealant

Description



NEMPAL® 151 GP Why Nail™ is a solvent-based, general-purpose construction adhesive sealant formulated with synthetic rubber. It is recommended for various bonding applications in construction, renovation, woodworking, furniture manufacturing, or DIY works.

The cost-effective product exhibits strong and long-lasting bonding to various common substrates, making it a value-for-money choice.

- Wooden wall panels
- Faux wall panels
- 3D wall panels
- Fluted wall panels
- Shiplap boards

Furniture Manufacturing & Customization

- Cabinetry
- Aluminium edging
- Signages
- Customized parts

Miscellaneous

- Plasterboard to wooden/metal studs
- FRC boards
- Raised floor pedestals
- Wall / Column Corner Guard
- Wall tiles
- Various household components

*** Users are responsible to carry out tests prior to installation to confirm compatibility with actual substrates, work conditions, and service requirements.*

Technical Properties

Curing System	: Solvent evaporation
Base Material	: Synthetic rubber
Appearance	: Thixotropic thick paste
Colour	: Light Beige
Odor	: Light solvent smell
Solid content, %	: ~75
Lap shear strength, N/mm ² (ASTM D1002 - wood to wood)	: 2.9
Working Time, minutes (at 25 °C & 50% R.H.)	: 10 – 15 *
Curing Time, hours	: 24 – 72 *
Application Temperature	: -20 °C – 38 °C
Service Temperature	: -20 °C – 60 °C

* Varies depending on temperature, humidity, substrate porosity, thickness of adhesives applied, and application methods.

Applications**

Compatible with most construction materials: wood, plywood, corkboard, MDF, gypsum board, FRC board, certain plastics, metal substrates like aluminium and GI Steel, concrete, masonry, glass, ceramics, tiles, bricks, stones, veneer, etc.

Typical applications include:

Flooring

- Floor panels to batten
- Floor skirting boards
- Floor stair treads, risers, nosing
- Floor edging, transition profiles, reducer, end cap

Interior Decorations

- Wainscoting
- Cornice & Coving
- Architraves & trims

Decorative Wall Panels

Features & Benefits

- Compatible with most substrates
- Easy to apply, even at low temperature
- Non- dripping, sagging or stringing
- High strength after full cure
- Long lasting bond
- High solid content
- Cost effective

Directions for Use

1. Surfaces must be structurally sound, clean, dry, free of dust, dirt, flaking paint, loose particles, grease, oil or water. For smooth surfaces, adhesion can be improved by lightly sanding bond areas.
2. Cut tip off and puncture the internal foil seal with nozzle. Cut nozzle tip to a 6 mm diameter hole (or desired size) and apply to substrate with cartridge gun.
3. Apply adhesive bead along the length of object like batten, stud or joist. If object has a broad flat surface, apply beads in a zig-zag manner, or vertical lines with a gap of 30mm – 70mm depending on object size and weight.
4. It can be applied either as a "two-way contact" or a "one-way stick" adhesive.
 - 4.1 "Two-way contact" (bonding of lighter objects): Apply adhesive to one surface. Press both surfaces together firmly to transfer the adhesive, and then pull both surfaces apart. Allow adhesive to tack off for 10 to 30 seconds and then reposition and press firmly together

again. Use a rubber mallet to tap along the bonded area to ensure good adhesion.

4.2 **"One-way stick"** (bonding of heavier objects): Apply adhesive to one surface. Press both surfaces together firmly and fasten them securely with clamps, nails, or screws. Maintain the fastening for a minimum of 24 hours.

5. Uncured adhesive can be removed with a piece of cloth, with solvent / mineral spirits / Turpentine if necessary. Dried adhesive can only be removed by scraping or sanding.

Curing Time

The working time of the product is 10 - 15 minutes. Avoid adjusting or disturbing the bonded substrates after working time.

Usually, a green strength is achieved in 24 – 48 hours, and it continues to strengthen over the next 2-3 days. In most cases full cure can be achieved in 5-7 days.

Actual working, green strength, and full cure time depend on thickness of adhesive applied, temperature, humidity, ventilation, and porosity of bonded surfaces (solvent escape takes longer time in non-porous surfaces).

Coverage

A single 300ml cartridge can extrude a bead of adhesive approximately 10m long with a diameter of 6mm.

Limitations

NOT recommended for the following applications:

- Mirror bonding
- Polystyrene / PU foam bonding
- Outdoor areas exposed to continuous weathering
- Areas with temperatures below 5°C or above 70°C
- Areas with permanent water immersion
- Areas or substrates that are constantly damp
- Polyethylene, polypropylene, PTFE, silicone, bituminous substrates

Storage, Shelf Life, and Packaging

- Store properly in a dry and well-ventilated place with temperature below +30°C.
- Use within 18 months from date of production.
- Cartridge – 300 ml (24 cartridges / carton)

Handling Precautions

Always test before use - user is responsible to test before using to confirm the product produces desirable results.

If working in an area with poor ventilation or in a confined area, wearing a mask is recommended. Avoid contact with skin, eyes and avoid breathing in vapour. Contact doctor if swallowed.

If skin contact occurs, wipe off excess and remove contaminated clothing, wash affected area thoroughly with soap and water. For further health and safety information, please refer to the latest Safety Data Sheet.

Disclaimer

The information provided herein reflects our current best knowledge and is offered as guidance for our customers. However, it does not absolve users from thoroughly inspecting all supplies upon receipt. We reserve the right to update product properties as new developments or technical progress arise. Users should verify the recommendations in this TDS through preliminary trials, as certain conditions during processing are beyond our control. This document does not constitute a warranty, expressed or implied, regarding the fitness or suitability of the product for any specific purpose. The company assumes no responsibility for any loss or damage resulting from product use, as variations in processing, working conditions, or workmanship may occur beyond our control.

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