

## PRODUCT DATA SHEET

## Nailbond® Premium

## FAST CURING, ONE COMPONENT POLYURETHANE WALLBOARD AND GENERAL CONSTRUCTION ADHESIVE

## DESCRIPTION

Nailbond® Premium is a fast curing, polyurethane based adhesive for bonding wallboards and flooring, and as a general construction adhesive. Nailbond® Premium cures by reaction with atmospheric moisture to form a tough, elastic adhesive.

## USES

As a wallboard and flooring adhesive:

- Gib, James Hardie, or other wall linings to timber, metal or other surfaces
- Sheet flooring to timber floor joists

As a general construction adhesive in the bonding of common building materials such as:

- Tiles
- Bricks, masonry and concrete
- Polystyrene
- Plywood, fibre-cement board, compressed sheeting
- Metals\*\*

## PRODUCT INFORMATION

Chemical Base	Polyurethane (PU)
Packaging	600 ml sausage unipacs/20 per carton
Colour	Beige
Shelf Life	Twelve (12) months from production date if stored as stated.
Storage Conditions	Store in unopened original packaging, in cool dry conditions between +5°C and +25°C.
Density	~1.2 kg/litre
Volatile organic compound (VOC) content	28.5 g/L

## CHARACTERISTICS / ADVANTAGES

- Non-shrinking, non-foaming (no expansion while curing)
- Flexible
- Suitable for interior/exterior use
- High strength, including high “grab” strength
- Excellent adhesion to most construction materials
- Suitable for use on LOSP treated H1.2 and H3.1 framing timber
- Fast curing

## APPROVALS / STANDARDS

## NZ Building Code Compliant

- B1 Structure. When used as a component of compliant building element systems
- B2 Durability: Clauses B2.3.1 (b) 15 years. (c) 5 years
- F2 Hazardous Building Materials: Clause F2.3.1

## TECHNICAL INFORMATION

Tensile Strength	~1.55 N/mm <sup>2</sup>	(+23 °C and 50 % R.H.) (ASTM D-412)
Lap Shear Strength	1.13 N/mm <sup>2</sup>	(23 °C and 50 % R.H.) (ASTM D-1002 modified, glass substrate)
Service Temperature	-20°C to +70°C	
Elongation at break	~600 %	(+23 °C and 50 % R.H.) (ASTM D-412)

## APPLICATION INFORMATION

Ambient Air Temperature	Application temperature: +5°C to +35°C
Curing Rate	3mm per 24 hours (at 20°C, Relative Humidity 60%) Final Cure 3 to 5 days depending on climate

## BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

## LIMITATIONS

- Nailbond® Premium will not adhere to polyethylene, polypropylene, polybutylene, Polycarbonate, silicone or Teflon. If in doubt about the substrate suitability consult the Sika Technical Department or conduct preliminary adhesion tests.
- Always use Nailbond® Premium in conjunction with mechanical fixings for overhead applications or heavy components.
- For very heavy components provide temporary support until Nailbond® Premium has fully cured.
- \*While Nailbond® Premium will bond to damp timber, note that damp timber will shrink and this can put stress on the bond.
- Nailbond® Premium is not to be used on Copper Napthalate treated timber.
- Timber treatment inconsistency may cause a variation in adhesion and bond strength.
- After installation of the material to be bonded, Nailbond® Premium must have a minimum finished thickness of 1 - 2 mm.
- Protect from water for 2 - 3 hours after application.
- When applying Nailbond® Premium to pre-painted surfaces conduct adhesion tests first.

## ECOLOGY HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

## APPLICATION INSTRUCTIONS

### SUBSTRATE PREPARATION

- All surfaces must be clean, dry\* (refer to the "Important Considerations" section) and free from any loosely adhering particles or surface contaminants such as dirt, dust, oil, grease, etc.
- For optimum results on porous substrates and in immersed applications, use Sika® Primer-3 N. Use Sika® Aktivator-205 as a surface cleaner/conditioner on non-porous substrates, such as galvanised steel framing.

**PRIMING:** Most substrates only require priming if testing indicates a need or where sealant will be subjected to water immersion after cure. \*\*Consult Sika for additional information on specific substrates and cleaning/priming.

### APPLICATION METHOD / TOOLS

- When using Nailbond® Premium for the bonding of construction components it may be necessary to provide temporary mechanical support until the adhesive has cured.
- Cut nozzle at 45° angle to give a 5 - 8mm bead.
- **Sausage:** Fit Nailbond® Premium sausage into a Sika 600ml sausage gun and using wire cutters cut the sausage below the metal crimp at one end. Place sausage nozzle over open end of gun and screw on end cap to hold in place.
- Apply a continuous bead of adhesive to one surface and join both surfaces together making sure adhesive has good contact with both surfaces. Brace in position using nails, screws or clamps as required.
- **Wallboards:** Follow instructions of wallboard or panel manufacturer. Locate panels on the adhesive within 15 minutes and press firmly. Brace panel if required for 24 hours or more, or fix with nails around the edges.

### CLEANING OF TOOLS

Clean tools immediately after use with Sika Wonder Wipes or Sika® Thinner C - cured Nailbond® Premium can only be removed mechanically.

## LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

## LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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### Product Data Sheet

Nailbond® Premium  
November 2024, Version 04.02  
020513010002000007

NailbondPremium-en-NZ-(11-2024)-4-2.pdf

