



Adhesives

The Dependable and Durable Adhesive Choice for
RVs, Entry Doors, Garage Doors, Manufactured
Homes, SIPs, and more.



FOAMNAIL®

FoamNail® and OnePart™: **Trusted names in adhesives from** **the leader in PU solutions, FSI**

Depending upon the type of application you have, FoamNail® and OnePart™ – industrial strength adhesives from FSI – can meet any challenge. FoamNail® and OnePart™ are a family of urethane adhesives designed with uncompromised quality. Our adhesives have been used successfully in a wide range of industrial and commercial applications, from entry and garage doors, to manufactured homes, RVs, and building components like structural insulated panels (SIPs) and much more.

FoamNail® is a two-part adhesive, while OnePart™ is a moisture cured adhesive. Whichever formula you choose, FoamNail® or OnePart™, you'll find these adhesives to be environmentally benign, economical and extremely effective. FoamNail® and OnePart™ are VOC exempt, formaldehyde-free and do not contribute to global warming or ozone depletion.

In addition to the physical benefits, our adhesives are substantially lower cost alternatives to other adhesive options. FoamNail® and OnePart™ adhesives also have third party certification for various testing requirements including, but not limited to, IM 022, CA 25-4 Standards and ASTM E72.





Physical Properties

- Type: Moisture-Cured Urethane Adhesive
- Color: Brownish
- 100% Solids
- Net Weight: 9.3 lbs/gal
- Viscosity @ 25°C (77°F): 4,300–4,900 cP
- Reactivity Range:
 - Open Time: 30 sec–47 min
 - Set-Up Time: 1 min–95 min
- Storage Temperature: 50–90°F
- Six-month shelf life

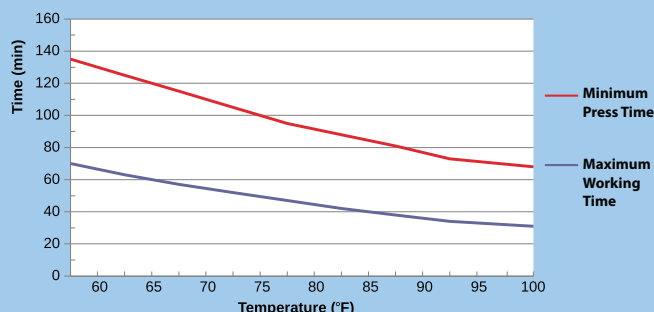
Key Benefits

- Good Mechanical Properties
- No Fillers
- Third Party Certified
- Large Range of Reactivities
- Various Delivery Methods
- Worldwide Availability
- Environmentally Benign
 - Zero Global Warming
 - Non Smog Producing
 - Zero Ozone Depleting
 - Formaldehyde Free

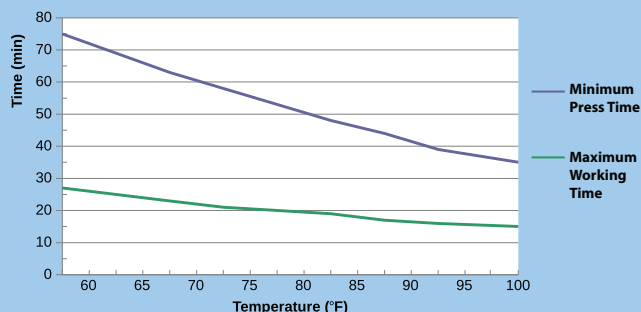
Certifications

- CA 25-4 Standards
- ASTM E72-80
- ASTM C557
- ICC-ES AC0005-05
- IM 022/AC05
- IM 036/AC04

Estimated Cure Time for OnePart™ 47



Estimated Cure Time for OnePart™ 20



Specifications (from PEI Listing Report)

TABLE 1: NOMINAL APPLICATION SPECIFICATIONS

Adhesive	Application Method	Adhesive Applied	Water Applied	Ambient Temp	Ambient RH
OnePart-2	Bead or Roll Coat	12 g/ft ²	2 g/ft ²	73.4°F	50%
OnePart-20	Bead or Roll Coat	12 g/ft ²	2 g/ft ²	73.4°F	50%
OnePart-35	Bead or Roll Coat	12 g/ft ²	2 g/ft ²	73.4°F	50%
OnePart-47	Bead or Roll Coat	12 g/ft ²	2 g/ft ²	73.4°F	50%

TABLE 2: NOMINAL CURING SPECIFICATIONS

Adhesive	Relative Humidity	Chemical Temp.	Open Time ¹	Closed Time ²	Press Time ³	Press Pressure
OnePart-2	50%	75°F	0.5 min	1.0 min	6 min	3 psi
OnePart-20	50%	75°F	1.25 min	11.25 min	67 min	3 psi
OnePart-35	50%	75°F	2.25 min	27.75 min	130 min	3 psi
OnePart-47	50%	75°F	3 min	30 min	180 min	3 psi

¹Open Time is defined as the maximum amount of time elapsed from adhesive application until the adhesive is covered with another substrate.

²Closed Time is the maximum cumulative amount of time elapsed from the adhesive application, when it is covered with another substrate, until the assembly is under pressure.

³Press Time is the minimum amount of time the assembly is maintained under pressure.

To obtain the most current PEI Listing Report visit <http://www.p-e-i.com/reports.html>

Key Benefits

- Good mechanical properties
- Various third party certifications
- Excellent test results
- Pressurized and standard delivery available
- Significantly lower cost option to traditional tube and caulk applications
- Industry best shelf life
- Worldwide availability

Pressurized Delivery Benefits

- Safest delivery system in industry
- Best environmental delivery – little to no material waste
- Reduces human exposure to chemicals
- Reduces parts and maintenance costs for dispensing equipment
- Frees up valuable floor space

Certifications

- PEI Standard No. 89-1
- PEI Standard No. 93-7
- PEI Standard No. 93-8
- PEI Standard No. 99-23
- ASTM E72
- ASTM C557
- ASTM E84
- UL-1715

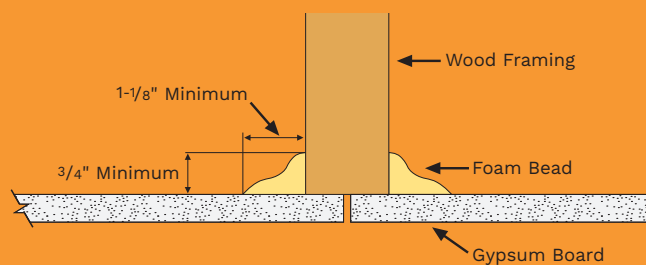
EXAMPLE A



EXAMPLE B



FoamNail® provides a strong adhesive bond when the lumber is straight and fits flush (Example A), and also fills in any gaps when the lumber is warped and cannot fit flush (Example B). (Note: Example A and Example B cross sections were cut from the same lumber/gypsum construction.)



◀ FoamNail® shown applied along the intersection of the gypsum and the lumber according to FSI application instructions.



foamsupplies.com

Success
through
Innovation