



Product Evaluation Report

PER-06015

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Progressive Engineering Inc.

Initial Listing
July, 2006

Re-Approved
April, 2009

58640 State Road 15
Goshen, Indiana 46528

574-533-0337
www.p-e-i.com

Listed Product

FSI FoamNail® One-Part or FoamNail® One-Part-20 Polyurethane Structural Adhesive

Listed For

Foam Supplies, Inc.
4387 North Rider Trail
Earth City, MO 63045

Approved Manufacturer

Foam Supplies, Inc.
4387 North Rider Trail
Earth City, MO 63045

Progressive Engineering Inc. is an accredited Testing Laboratory and Third Party Quality Control Agency. This **Product Evaluation Report** represents a product that Pei has a follow-up service agreement with. This **Product Evaluation Report** in no way implies warranty for this product or relieves **Foam Supplies Inc.** of their liabilities for this product. Pei is accredited to ISO Standard 17020 and 17025. This **PER** is an official document if it is within one year of the initial or renewal date.

Listing Details

FSI FoamNail® One-Part or FoamNail® One-Part-20 adhesive is used to bond wood, gypsum board and plywood by applying adhesive beads between these materials and using mechanical fasteners.

Product Description

FSI FoamNail® One-Part or FoamNail® One-Part-20 is a moisture cure polyurethane structural adhesive meant to be used in an indoor manufacturing facility. This adhesive is not to be applied in an outdoor uncontrolled environment. This adhesive does not off-gas Formaldehyde into the air.

Containers and Storage

FSI FoamNail® One-Part or FoamNail® One-Part-20 is shipped in 1,000 pound pressurized cylinders, 55 gallon plastic drums or in 250 gallon totes. Storage of these containers should be in an indoor dry place between 50° and 90°F. The shelf-life is six (6) months from date of manufacture when stored in the original, unopened

General Product Use

The gypsum board being used shall meet ASTM C 1396. The lumber is to be kiln dried and graded. Both substrate surfaces shall be clean, dry and free of dust, ice and loose particles and shall have a surface temperature of 60° to 105°F. **FSI FoamNail® One-Part or FoamNail® One-Part-20** adhesive should be applied in an ambient temperature range of 65°F. to 85°F. The adhesive is applied using a squeeze bottle or pressurized dispensing equipment according to Foam Supplies Inc. application instructions. The adhesive temperature in the cylinders should be a minimum of 65°F and an optimum temperature of 77°F. This adhesive has a maximum open time of ten (10) minutes. The structure should stay in the same ambient conditions for the first 24 hours.

Construction of assemblies using **FSI FoamNail® One-Part or FoamNail® One-Part-20** and their design values should be as described in the following test reports.

Listing Criteria

1. The **FSI FoamNail® One-Part or FoamNail® One-Part-20** adhesive shall be applied according to Foam Supplies Inc. application instructions. A copy of these instructions must be made easily available at the assembly areas.
2. **FSI FoamNail® One-Part or FoamNail® One-Part-20** adhesive is to be manufactured at the Foam Supplies Inc. plant in Earth City, MO following their approved Q.C. program with unannounced inspections by Progressive Engineering Inc.

- 3. The use of [FSI FoamNail® One-Part](#) or [FoamNail® One-Part-20](#) adhesive in a fire rated assembly is not addressed in this Listing.
- 4. A vapor barrier cannot be used between the adhesive and the substrates.
- 5. [FSI FoamNail® One-Part](#) or [FoamNail® One-Part-20](#) adhesive is to be applied to the back side of standard raw gypsum and is not intended for other gypsums such as foil backed, moisture resistant or water resistant gypsums.

Tested to

California CA 25-4
ASTM C 557
ASTM E 72

Product Documentation

A MSDS sheet for [FSI FoamNail® One-Part](#) or [FoamNail® One-Part-20](#) adhesive - Dated 3/03/2006

[FSI FoamNail® One-Part](#) or [FoamNail® One-Part-20](#) Guidelines for Use, Application & Safe Handling

A Listing and Follow-up Service agreement between ***Progressive Engineering Inc.*** and [Foam Supplies Inc.](#) dated 5/1/2006

Opinion Letter dated: 4/29/2002

The following is a list of test reports for [FSI FoamNail® One-Part](#) or [FoamNail® One-Part-20](#) adhesive.

<u>Wall Racking Tests</u>		<u>C557 Tests</u>	<u>CA 25-4 Tests</u>	<u>HCHO Tests</u>
2000-2194	2001-1543	2001-1353	2000-1768	2008-1778
2001-1215A	2002-493A			
2001-1215B	2002-493B			
2001-1215E	2002-493C			
2001-1542				

Product Labeling

Each cylinder shipped of [FSI FoamNail® One-Part](#) or [FoamNail® One-Part-20](#) that is covered by this PER must have a label attached with at least the following information:

- 1. Foam Supplies Inc.'s name and address.
- 2. Date of manufacture & Lot#
- 3. Shelf life information
- 4. This PER number & Pei Information

