



Architectural Coatings

*Liquid Nails* FRP Fiberglass Reinforced Plastic Panel Interior Adhesive**GENERAL DESCRIPTION**

*Liquid Nails* FRP Fiberglass Reinforced Plastic Panel Adhesive, FRP-310, is a strong-bonding, low-odor, low-solvent, high-strength adhesive for interior applications. It features excellent adhesion and low VOC-content.

**RECOMMENDED SUBSTRATES**

**Recommended for bonding FRP and NRP (non-reinforced plastic) panels to:** Wood, cement backerboard, drywall, greenboard, and cured concrete.

**FEATURES / BENEFITS**

Strong bonding  
Trowel-grade adhesive  
Will not burn through panels  
Will not attack foam insulation  
Water clean up  
Low solvent, low odor  
Exceeds ASTM C557

**CONFORMANCE STANDARDS**

Compliant with all US VOC regulations for interior construction adhesive category as of 09/2024

**PRODUCT INFORMATION / PACKAGING**

LN-310 1 Gallon (3.78 L)  
LN-310 3.5 Gallons (13.2 L)

**LIMITATIONS OF USE**

NOT recommended for bonding FRP and NRP panels to wallpaper, painted surfaces, or exterior surfaces. Not recommended for use between two nonporous surfaces. Do not use on marble or granite.

**FREEZE/THAW STABLE.** Store product at 40°F (4°C) to 100°F (38°C). USE PRODUCT WITHIN ONE YEAR OF PURCHASE. KEEP CONTAINER TIGHTLY CLOSED WHEN NOT IN USE.

**PRODUCT DATA****BASE:** VAE Emulsion**COLOR:** Tan**APPEARANCE:** Smooth, trowelable**APPLICATION TEMPERATURE:** 40°F to 100°F (4°C to 38°C)**SERVICE TEMPERATURE:** 0°F to 140°F (-18°C to 60°C)

**SHEAR STRENGTH:**

<b>Wood to Wood</b>
24 hours – 210 psi
48 hours – 250 psi
7 days – 275 psi
<b>Wood to FRP</b>
24 hours – 100 psi
48 hours – 125 psi
7 days – 275 psi

**WEIGHT PER GALLON:** 12.1 lbs. (5.5 kg)**BROOKFIELD VISCOSITY:** 200,000 – 500,000 cps**OPEN TIME:** 45 minutes at room temperature**MINIMUM CURE TIME:** 24 hours at room temperature**FREEZE/THAW STABILITY:** No effect after 5 cycles**FLAMMABILITY:** Non-flammable**FLASH POINT:** > 200°F (93°C)**PERCENT VOLATILE:** 38% (includes water)**PERCENT SOLIDS:** 62%

**COVERAGE:** Approximately 50 sq. ft. (4.6 sq. meters) per U.S. gallon (3.78 L) on smooth surfaces. Coverage on textured or rough surfaces may be less.

**SHELF LIFE:** One year from date of purchase**ODOR:** Latex**SPECIFICATIONS:** Exceeds ASTM C557**MAX VOC:** < 7% by weight; < 70 g/L (0.6 lbs/gal)

## GENERAL SURFACE PREPARATION/APPLICATION

**WARNING!** If you scrape, sand, or remove old paint, you may release lead dust or fumes. LEAD IS TOXIC. EXPOSURE TO LEAD DUST OR FUMES CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a properly fitted, NIOSH-approved respirator and prevent skin contact to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the USEPA National Lead Information Hotline at 1-800-424-LEAD or log on to [www.epa.gov/lead](http://www.epa.gov/lead). Follow these instructions to control exposure to other hazardous substances that may be released during surface preparation.

**DIRECTIONS:** For best results, adhesive and substrates should be between 50°F (10°C) to 90°F (32°C). Surfaces must be structurally sound and dry, free of grease, dirt, dust, wallpaper, paint, or anything that would interfere with a bond. Level any high spots and fill all cracks and holes with appropriate fillers. **Installing FRP and NRP panels:** 1. Cut and prefit panels. 2. Spread adhesive with the recommended trowel over the entire back of the panel. 3. As soon as adhesive is spread over entire panel and before adhesive skins over (within 45 minutes), set panel in position and press against wall. 4. Press panel firmly into place, working from the center to the edges until full contact has been made. 5. Bracing may be required if walls or panels are not completely straight. 6. For channel moldings, permanent fasteners, and panel spacings, follow panel manufacturer's specifications. **For application over concrete:** Concrete surfaces need to be dry and completely cured. When installing panels over below-grade concrete, where moisture can penetrate, you must first attach furring strips to the concrete block and then attach a solid surface, such as wood or drywall, to these furring strips. Then continue with standard panel application.

**CLEANUP:** Wet adhesive can be removed with water. After adhesive has dried, use mineral spirits.

**DISPOSAL:** Contact your local environmental regulatory agency for guidance on disposal of unused product.

**PERMISSIBLE TEMPERATURES DURING APPLICATION:**

Material:	40 to 100°F	4 to 38°C
Ambient:	40 to 100°F	4 to 38°C
Substrate:	40 to 100°F	4 to 38°C

## PRECAUTIONS

**WARNING! HARMFUL IF INHALED. HARMFUL IF SWALLOWED. MAY CAUSE EYE IRRITATION.** Sanding and grinding dusts may be harmful if inhaled. Inhalation of high concentrations of vapor may affect the central nervous system. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. High vapor concentrations can cause headaches, dizziness, drowsiness and nausea and may lead to unconsciousness. This product contains crystalline silica which can cause lung cancer or silicosis. The risk of cancer depends on the duration and level of exposure to dust from sanding surfaces. Do not breathe vapor. Do not swallow. Do not get on skin or clothing. Avoid contact with eyes. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling. Provide fresh air ventilation during and after application and drying. Avoid the inhalation of dust or particulates arising from the application of this preparation. Use personal protective equipment as required. **Prior to use, read and follow product-specific SDS and label information. FIRST AID:** If swallowed, rinse mouth with water (only if the person is conscious). Call physician immediately. Do not induce vomiting unless directed to do so by medical personnel. If in eyes, rinse with water for 15 minutes. Check for and remove any contact lenses. If on skin, rinse well with water. Wash with soap and water. Get medical attention if irritation develops. If inhaled, remove to fresh air. Call physician immediately. Contains isothiazolinones. May cause allergic reaction. Keep out of the reach of children. For workplace use, an SDS is available from your retailer or by calling (412) 492-5555. **EMERGENCY SPILL INFORMATION:** (412) 434-4515 (U.S.).

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