



TECHNICAL DATA SHEET



PL® 300 Foamboard Construction Adhesive

Henkel Corporation

Professional and Consumer Adhesives
Rocky Hill, CT 06067
Phone 1-800-624-7767
Fax (440) 250-9661
www.henkel.com www.loctiteproducts.com



DESCRIPTION

Loctite® PL® 300 Foamboard Construction Adhesive is a latex water-based adhesive formulation for bonding most foam insulation panels to a variety of porous construction materials, including, but not limited to: wood, gypsum board, and concrete. It is compatible with all “unfaced” foamboard insulation products and won't burn through foam if used as directed. Low VOC formulation meets stringent State and Federal VOC Regulations.

RECOMMENDED FOR:

Loctite® PL® 300 bonds to most types of surfaces including unfaced EPS (expanded polystyrene foam), XPS (extruded polystyrene foam), and polysio (urethane) foam, rigid polystyrene, wood, concrete, non-glazed brick and drywall.

LIMITATIONS:

- One bonding surface must be porous. Will not bond two non-porous substrates
- Do not use on polyethylene (PE), polypropylene (PP), polytetrafluoroethylene (PTFE) and acrylic or glazed bonding surfaces such as ceramic tile
- Will not bond to filmed faced foam insulation panels or polyethylene vapor barriers
- Do not apply at temperatures lower than 40°F (5°C) or above 100°F (38°C)
- Not to be used in areas subject to permanent water immersion
- Should not be applied outside if rain is expected within 24 hours
- Do not apply to damp surfaces
- Do not use in cold storage units. Not tested for direct or indirect food contact

FEATURES & BENEFITS:

Feature	Benefits
Foamboard compatible.....	Will not attack or burn through foamboard
Low VOC Formula.....	Meets stringent State and Federal VOC Regulations
Water and Weather Resistant.....	Great for indoor or outdoor projects
Bonds to most building materials.....	Provides a strong, durable bond to multiple surfaces
Gap filling.....	Will bridge minor gaps when bonding irregular surfaces
Excellent Initial Grab.....	Reduces the use of fasteners

COVERAGE

For a 10 fl. oz. cartridge:

A ¼" (6 mm) bead extrudes approximately 30.6 ft (9.35 m).
A 3/8" (9.5 mm) bead extrudes approximately 13.6 ft. (4.1 m).

For a 28 fl. oz. cartridge:

A ¼" (6 mm) bead extrudes approximately 85.8 ft (26.1 m).
A 3/8" (9.5 mm) bead extrudes approximately 38.1 ft. (11.6 m).



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Typical Uncured Physical Properties		Typical Application Properties	
<u>Color:</u>	Light Blue	<u>Application Temperature:</u>	Apply and cure between 40°F (5°C) and 100°F (38°C)
<u>Appearance:</u>	Thick, non-sagging paste	<u>Odor:</u>	Mild acrylic
<u>Base:</u>	Acrylic Latex	<u>Working Time:</u>	20 minutes
<u>pH:</u>	7.00-7.50	<u>Full Cure Time:</u>	7 days Cure time depends upon temperature, humidity, porosity of substrate and amount of adhesive used.
<u>Viscosity:</u>	280,000 – 380,000 cps		
<u>Specific Gravity:</u>	1.224		
<u>VOC Content:</u>	1% by weight (< 50 g/L)		
<u>Shelf Life:</u>	24 months from date of manufacture (unopened)		
<u>Lot Code Explanation:</u> (Lot code is inkjetted on body of cartridge)	YYDDD YY = Last two digits of year of manufacture DDD = Day of manufacture based on 365 days in a year For example: 13061 = 61 st day of 2013 = March 2, 2013		

Typical Cured Performance Properties

<u>Color:</u>	Light Blue
<u>Cured Form:</u>	Non-flammable solid
<u>Service Temperature:</u>	0°F (-17.78°C) to 170°F (77°C)
<u>Water Resistance:</u>	Yes, after full cure.
<u>Vertical Sag:</u> (After 20 minutes)	< 0.5 inches

DIRECTIONS

Tools Typically Required:

Utility knife, caulking gun.

Safety Precautions:

Wear gloves. Wash hands after use.

Preparation:

The temperature of the adhesive, the surfaces and the working area must be between 40°F (5°C) and 100°F (38°C). For smooth, fast, easy application during cold weather, store adhesive at room temperature (70° ± 5°F) 24 hours prior to use. Ensure surfaces to be bonded are clean, dry, structurally sound and free of dust, grease, oil, paint, scale, release agents or other contaminants. Release agents must be removed from poured concrete. Newly poured concrete must be allowed to cure at least 28 days prior to adhesive application. Painted surfaces do not provide for a sound bonding surface, therefore testing for adhesion is required prior to the start of the project. To obtain maximum adhesion, surfaces should be flat and close fitting to provide adequate contact. Cut and pre-fit all foam prior to applying product. Cut off tip of cartridge at 45° angle to desired bead size and puncture inner seal of cartridge. Recommended bead size is 3/8" (9.5 mm) round.



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DIRECTIONS

Application:

Using a caulking gun, apply adhesive as a series of vertical beads 10 inches apart (perimeter gluing is not recommended). Start the beads approximately 1 inch from the panel edge. Immediately after applying the adhesive place the foam against the substrate and press firmly into place to flatten out the adhesive. Be careful not to over press. Mechanical fasteners must be used and kept in place until the adhesive is fully cured. Cure time will vary depending on the porosity of the material used, the humidity and the temperature at time of application. Low temperatures and high humidity will increase the amount of time required for the adhesive to dry. Bracing is recommended until adhesive is cured. The adhesive must be fully cured before it can be exposed to elevated temperatures.

Drywall application over foam insulation:

Apply adhesive as outlined above. Position drywall, align and press firmly into place. Nail panel to underlying studs or strapping around entire perimeter. It is recommended to brace the center or field of the panels for at least 24 hours. Mechanical fasteners must be used and kept in place until adhesive is fully cured. Furring strips are recommended on concrete walls

Clean-up:

Clean tools and uncured adhesive residue immediately with water. Cured adhesive may be carefully cut away with a sharp-edged tool.

STORAGE AND DISPOSAL

PROTECT FROM FREEZING. For best results, store at 70° ± 5°F in a cool, dry place. Store away from heat, flame and sparks. Take unwanted product to an approved household hazardous waste transfer facility. Hardened material may be disposed of with trash.

LABEL PRECAUTIONS

CAUTION! Contains crystalline silica. May cause skin and eye irritation. Avoid contact with eyes and skin. Do not swallow. **FIRST AID:** If swallowed do not induce vomiting, call a physician or Poison Control center. For eye contact flush with water for 15 minutes. For skin contact wash thoroughly with soap and water. **KEEP OUT OF THE REACH OF CHILDREN.**



WARNING: Cancer and Reproductive Harm – www.P65Warnings.ca.gov.

Refer to the Safety Data Sheet (SDS) for further information

DISCLAIMER

The information and recommendations contained herein are based on our research and are believed to be accurate, but no warranty, express or implied, is made or should be inferred. Henkel recommends purchasers/users should test the products to determine acceptable quality and suitability for the intended use. All adhesive/sealant applications should be tested under simulated or actual end use conditions to ensure the adhesive/sealant meets or exceeds all required project specifications. Since assembly conditions may be critical to adhesive/sealant performance, it is also recommended that testing be performed on specimens assembled under simulated or actual production conditions. Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute a permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.



For all applications not specifically outlined in this Technical Data Sheet please contact Technical Services Help Line:

Technical Questions call 1-800-624-7767 – Mon-Fri - 9:00am to 4:00pm ET
www.loctiteproducts.com



Loctite Brand is part of the Henkel family of brands. Founded in 1876, Henkel is a global leader in the consumer and industrial businesses. Henkel operates worldwide with leading brands and technologies in three business areas: Laundry & Home Care, Beauty Care and Adhesive Technologies.

Henkel Corporation - Professional & Consumer Adhesives Headquarters - Rocky Hill, CT 06067
www.henkelna.com