FOAMULAR® NGX® ADHESIVE COMPATIBILITY

Why Use Adhesives

FOAMULAR® NGX® XPS insulation is a lightweight, rigid foam insulation board that is used in a variety of applications, which may be installed loose-laid, by compression fit, by mechanical fastener, or using compatible adhesives. The applications include but are not limited to foundation walls, exterior cavity walls, and roofs.

Please see Owens Corning® FOAMULAR® NGX® Installation Instructions for more information:
FOAMULAR® NGX® Commercial Walls Installation Instructions
FOAMULAR® NGX® Commercial Roofs Installation Instructions
FOAMULAR® NGX® Commercial Foundations Installation Instructions

Types of Adhesives Used with FOAMULAR® NGX®

There are typically three types of adhesives that can be used with FOAMULAR® NGX® XPS insulation. Selection will depend on the application and may also depend on preference.



Tube
This adhesive is available in a variety of tubes or sausages and applied using a caulk or sausage gun.



Spray
This adhesive is available in canisters and applied using a spray gun or wand. The adhesive is aerosolized and used mostly for larger, smooth-surface applications.



Foam
This low-expansion one- or two-part foam adhesive is also available in canisters and applied using a gun to control the application. When installing XPS on this product, it is recommended to press the FOAMULAR® NGX® XPS into the foam, then pull away followed by again pressing the FOAMULAR® NGX® XPS back into place.

While Owens Corning **does not approve or recommend any specific adhesives**, the below adhesives exhibited no visual appearance change in surface, cross-sectional, and glued cross-section on June 15, 2024 when tested by Owens Corning Science & Technology. **Adhesion was not tested**, and it is recommended to contact the adhesive manufacturer for minimum expected adhesion.

TUBE	SPRAY[1]	FOAM
DAP Dynagrip[2]	3M 74, 78	DuPont™ Great Stuff™
GluDown® WeatherGrip[2]	Elmer's® Spray	Owens Corning® ProPink ComfortSeal™ Gun Foam Sealant
Gorilla Heavy Duty[2]	GluDown®	
Liquid Nails Extreme[2]	Gorilla Spray	
Loctite PL300,[2] Premium[2]	STA'-PUT®	
OSI® QB300[2]		

1 Using too much spray adhesive has negative results. Follow the manufacturer's application instructions closely.
2 It is known that exposure to heat and solar energy may increase reaction to incompatible adhesives. Owens Corning S&T exposed these indicated adhesives to a light table for 20 minutes at 170–180°F after application to the FOAMULAR® NGX® and determined the following did not exhibit visual appearance of incompatibility.

For more information regarding adhesive recommendations and testing conducted by Owens Corning S&T, refer to the "Enclosure Solutions ES-09A FOAMULAR® NGX® Adhesive Compatibility Technical Bulletin."

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