

ADVANTECH™ SUBFLOOR ADHESIVE

MANUFACTURED FOR: Huber Engineered Woods LLC
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AdvanTechSFA.com



Basic Use and Applications

AdvanTech™ subfloor adhesive is a high-performance, moisture-cured, gun-applied polyurethane construction adhesive that can be used in cold and wet conditions. Formulated to adhere to wet and frozen structural subfloor panels and joists,⁴ this moisture curing poly adhesive is the ideal solution for not so ideal weather conditions. It easily dispenses as a foam bead that quickly condenses to form a high-strength gel adhesive.

AdvanTech subfloor adhesive is designed to be used to bond AdvanTech® flooring, OSB and plywood subfloors to the supporting floor framing below. It helps prevent movement between the floor panels and the joists/trusses which can lead to floor squeaks and pops and a bouncy floor. Used with AdvanTech flooring, AdvanTech subfloor adhesive is the FLAT OUT BEST™ for a quiet, stiff floor. AdvanTech subfloor adhesive is classified as a Class 2 aerosol adhesive in accordance with 49 CFR 173.115(a).

Compatible Substrates

- AdvanTech® panels
- Plywood
- OSB
- Dimensional and treated lumber
- Concrete
- Metal
- Gypsum wallboard
- Fiberglass
- Plastic
- Masonry

Features and Benefits

AdvanTech subfloor adhesive can yield up to 8 times the coverage when compared to traditional subfloor adhesive caulks,¹ and when used on a qualified AdvanTech™ Subflooring Assembly, it comes with a Squeak-Free Guarantee² for the subfloor to joist connection. AdvanTech subfloor adhesive maintains adhesion to dry, wet and frozen lumber while exceeding the industry adhesion performance by 2 – 5 times.³ The gun applied AdvanTech subfloor adhesive installs quickly, easily and can bridge minor gaps between the floor truss and the subfloor panel to ensure a tight bond forms between the framing and the subfloor.

Surface Preparation

Surface should be free from oil, grease and standing water. Adhesive may be applied in temperatures from 20°F (-6°C) to 105°F (41°C). Use drop cloths as necessary. Product will gun slowly when cold.

Installation Methods

To install AdvanTech subfloor adhesive place threaded end of can into applicator gun basket and rotate in a clockwise direction until tight. Do not over-tighten. Shake container vigorously for minimum 30 seconds prior to initial application. Check the tip of the applicator gun prior to dispensing adhesive and remove any dried adhesive from the tip with AdvanTech™ polyurethane foam cleaner or by safely scraping with a utility knife or other sharp object. Open the control knob and test bead size on scrap material. Adjust bead size by rotating the control knob located at the rear of the gun until you get a ½-inch foam bead. *Installation Tip:* rotate the control knob counter-clockwise to release more adhesive, and rotate the control knob clockwise to release less. (The trigger can also be used to control the rate and amount of foam adhesive coming out by how much the trigger is depressed.)

ADVANTECH™ SUBFLOOR ADHESIVE - QUICK SPECS	
Open Time	20 Minutes
Fully Cured Time	24 Hours
Material Composition	Polyurethane
Surface and Ambient Application Temperature	Min: 20° F (-6° C) Max: 105° F (41° C)
Shelf Life	18 Months

Can Changeover

Once started, do not remove applicator gun from can until can is empty. Point applicator gun in a safe direction and purge the applicator barrel. Remove can by rotating can in a counter-clockwise direction. Clean applicator basket with AdvanTech™ polyurethane cleaner as needed. Immediately attach new can of AdvanTech™ subfloor adhesive.

Coverage and Curing

One 24 oz. can of AdvanTech subfloor adhesive yields approximately 400 linear feet of gel adhesive at a ½" diameter bead. When compared to a 28 oz. caulk cartridge of typical subfloor adhesive, product yield per container is approximately 8 times that of the conventional adhesive applied at a 3/8" bead, per manufacturer's instructions. The subfloor panel should be installed and fastened within 20 minutes from the time of application.

Storage and Handling

Turn off the flow to the gun using the control knob at the back of the gun. Store the can in the upright position with the gun attached. To resume installation, shake the can for 30 seconds and then open the flow control valve. Maximum storage is 30 days. Product will keep for 18 months in unopened can when stored between 60° F and 90° F (16° C and 32° C). Storage above 90° F (32° C) will reduce shelf life. Do not store above 122° F (50° C).

Availability

AdvanTech subfloor adhesive will be available through distributors in New England (ME, NH, VT, MA, CT, RI) and NY beginning March, 2016. Check AdvanTechSFA.com for updated availability, or sign up to be notified when AdvanTech subfloor adhesive is available in your area.

Warranty

Visit AdvanTechSFA.com for complete details.

VOC Content

VOC ≤ 15 wt. %

VOC (California) ≤ 155 g/L

Technical Service

Detailed information including specifications, product literature, test reports, installation instructions, and special applications is available through Huber Engineered Woods.

ADVANTECH™ SUBFLOOR ADHESIVE - PHYSICAL PROPERTIES		
ASTM D3498		
Shear Strength (Dry Lumber), aged	Douglas Fir: > 500 psi (req > 150)	
Shear Strength (Wet Lumber), aged	Douglas Fir: > 300 psi (req > 150) Southern Pine: > 400 psi (req > 150)	
Shear Strength (Frozen Lumber), aged	Douglas Fir: > 300 psi (req > 100) Southern Pine: > 500 psi (req > 100)	
Gap Filling Shear Strength, aged	> 400 psi (req > 100)	
Durability - Moisture Resistance, aged	> 500 psi (req > 150)	
Durability - Oxidation, aged Shear Strength, Flexibility	Pass	
ASTM C557 / ASTM D6464	ASTM C557	ASTM D646
Shear Strength, 24 Hours	91 psi	95 psi
Shear Strength, 24 Hours	104 psi	89 psi
Shear Strength, 24 Hours	108 psi	104 psi
Tensile Strength, 24 Hours	36 psi	45 psi
Tensile Strength, 24 Hours	39 psi	34 psi
Shear Strength, Freeze/Thaw	102 psi	111 psi
Shear Strength under Static Load, 20 lb., 40 lb.	Pass, Pass	Pass, Pass
Wet Out, Plywood, Drywall	Pass	-
Aging	Pass	Pass
Laminating Suitability, Compatibility, Staining	Pass, Pass	-
Gap Filling / Bridging	Pass, 42 inches	Pass, 42 inches

Please visit AdvanTechSFA.com or call **800.933.9220 x 2716** to speak to a technical representative.

1. Coverage: One 24 oz. can of AdvanTech subfloor adhesive yields approximately 400 linear feet of gel adhesive at ½" bead compared to applying a 28 oz. cartridge adhesive at 3/8" bead. Coverage will vary based on bead size and weather conditions.
 2. Squeak Free Guarantee for AdvanTech subfloor assembly at joist connection: Limitations and restrictions apply. Must use AdvanTech subfloor panels with I-joists or trusses and deformed fasteners. Not applicable over dimensional lumber framing or with other subfloor panels. Will be available in New England (ME, NH, VT, MA, CT, RI) and NY beginning in March 2016. Applies only to one and two family dwellings, townhomes and structures permitted under IRC or governing residential code. See SqueakFreeGuarantee.com for complete details.
 3. Coverage: One 24 oz. can of AdvanTech subfloor adhesive yields approximately 400 linear feet of gel adhesive at ½" bead compared to applying a 28 oz. cartridge adhesive at 3/8" bead. Coverage will vary based on bead size and weather conditions.
 4. Exceeds ASTM D3498 Standard Specification for Field-Gluing Plywood to Lumber Framing for Floor Systems, dry, wet, frozen, and gap filling adhesion tests.
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