

THERMA - TITE™ | 3001

PRODUCT DESCRIPTION

THERMA-TITE™ 3001 is a closed-cell, spray-applied polyurethane roofing foam that forms a seamless, water-resistant barrier, effectively preventing air infiltration while offering superior insulation. The THERMA-TITE™ 3001 roofing system is self-flashing and leak-resistant without the need for mechanical fasteners or seams. Additionally, it boasts a low global warming potential (GWP), making it an environmentally responsible choice.

PRODUCT DATA

These properties were obtained under controlled lab conditions at 77°F. Actual field conditions may result in variations.

	TEST METHOD	VALUES
R-Value	ASTM C518	5.7 @ 1"
Core Density lb/ft ³	ASTM D1622	2.8 pcf
Water Vapor Permeance	ASTM E96	1.5 perms @ 1"
Air Permeance at 1" (L/s.m ²)	ASTM E2178	<0.02
Tensile Strength	ASTM D1623	70
Dimensional Stability	ASTM D2126	<6%
Flame Spread	ASTM E84	10
Smoke Development	ASTM E84	450
Closed - Cell, content (%)		90

THERMAL BARRIERS

For details on approved heat and fire protection barriers, please refer to Intertek's Code Compliance Research Report #0510 (CCRR #0510)

INSULATION EFFICIENCY (R-VALUE) (°F.FT².H/BTU)

R-Value at 1"	5.7
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LIQUID PROPERTIES AT 77°F

	A-SIDE (ISO)	B-SIDE (RESIN)
Specific Gravity	1.23	1.17
Viscosity	250 +/- 50	800 +/- 50

SUGGESTED STORAGE AND PRODUCT SHELF LIFE

- Store product at 50 - 100°F.
- 6 month shelf life from date of manufacture (unopened containers)
- Do not break product seal while stored
- Keep drums in a cool dry location out of direct sunlight.

GENERAL PRODUCT INFO

Product Color	Yellow (color is unstable, UV exposure will cause discoloration)
Product Packaging	55 Gallon Drum

SUBSTRATE PREPARATION

Ensuring the proper substrate is the responsibility of the owner, the owner's designated representative, the contractor, and/or the inspector. Additional preparation techniques may be required for uneven or specialized application environments. Contact IPS Technical Support at 812.776.6251 for further assistance. It is recommended to remove dust, dirt, paint, and other loose particles from all surfaces prior to applying IPS products. Please refer to IPS specifications or SPFA guidelines for further details on substrate preparation.

Wood	<ul style="list-style-type: none"> - Ensure the wood is adequately dry and protect surfaces from contamination. - For moisture levels exceeding 19%, please contact IPS Technical Support. - Presence of water or oil may result in poor adhesion or excessive foaming. - Fill large gaps with suitable backer rods or appropriate fillers. - For further assistance, reach out to IPS Technical Support.
Steel & Other Materials	<ul style="list-style-type: none"> - It is the contractor's or end user's responsibility to verify proper adhesion and suitability through field testing. Blasting and/or priming may not always be necessary. For further information, please contact IPS Technical Support.
Concrete	<ul style="list-style-type: none"> - When applying foam to concrete, ensure the surface is structurally sound, clean, and has been cured for 28 days. - Fill large gaps with suitable backer rods or fillers. - Blasting and/or priming may not be necessary. It is the contractor's or end user's responsibility to verify proper adhesion and suitability. For further assistance, contact IPS Technical Support.
Previously Applied Foam	<ul style="list-style-type: none"> - Whenever possible, remove any previously applied foam or other polymer products. Application over existing materials should only proceed after the contractor verifies adhesion and compatibility, and it is approved by the building owner or their representative.

PROCESSING PARAMETERS

Preconditioning	1. It is advised to precondition the material to 70-80°F before application. At lower temperatures, the material may thicken, potentially causing pump cavitation.
Mixing	2. Do not mix.
Pressure Settings	3. The product should be applied using a high-pressure, plural-component proportioner capable of at least 1000 psi dynamic pressure. 4. Static pressure is generally set between 1,100 and 1,400 psi.
Temperature Settings	7. Primary and hose heaters are typically set between 120°F and 130°F. Higher temperatures are used in winter months, while lower temperatures are preferred in summer months.

Setting the correct application temperature is the responsibility of the end user. Equipment temperature can vary based on factors such as equipment type, hose length, elevation, ambient temperature, substrate temperature, humidity, and more. For further assistance, contact IPS Technical Support. 812.776.6251.

APPLICATION

1. Clean surfaces as described in the "Preparation of Substrates" section.
2. If priming, follow manufacturer recommendations and ensure the primer is fully cured before application.
3. Maintain substrate temperatures between 45°F -180°F. Flashing is recommended at lower temperatures. For higher or lower application temperatures, contact IPS Technical Support for guidance.
4. Flush an appropriate amount of material through the lines and gun before spraying the desired surface, especially when switching systems. The amount required will depend on the previous system used. For additional details, contact IPS Technical Support.
5. Foam should be applied in at least .5 inch thick passes and no more than 1.5 inch thick passes to achieve the specified thickness, except at pass lines, roof penetrations and where tapering is required.
6. Do not spray if surface moisture is present.
7. Test the material before application to confirm it sprays, cures, and hardens properly.
8. Regularly inspect the applied material during application. If issues are identified, stop the application immediately and check all substrates, equipment, the gun, and the liquid material to determine the cause.

MAINTENANCE

1. Proper maintenance of spray equipment is essential for optimal performance. Neglecting maintenance can lead to poor product results. Refer to your equipment manufacturer's maintenance guidelines for detailed instructions.
2. For recommendations on long-term equipment storage, contact IPS.

