

QUIK-SHIELD 125

Roofing Spray Foam



QUIK-SHIELD® 125 is a closed-cell, spray-applied polyurethane roofing foam. It creates a monolithic, water resistant barrier that stops air infiltration and provides excellent insulation.

HIGH PERFORMANCE:

- Effective insulating material
- Seamless air barrier
- Severe storm resistant

LEAK RESISTANT:

- No mechanical fasteners
- No seams
- Self-flashing

TYPICAL PHYSICAL PROPERTIES*:

Nominal Density Range (lb/ft ³)	D-1622	2.5-3.0
Water Vapor Permeance (perms/in)	E-96	1.4
Dimensional Stability (%)	D-2126 ¹	3
¹ TAS 110- Miami-Dade- 28 days, at 70° C, 100% RH		
Shear Strength (psi)	C-273	51.9
Compressive Strength (psi)	D-1621	45-65
Tensile Strength (psi)	D-1623	65-75
Wind Uplift (plywood deck psf)	TAS 114-95J	-165
Wind Uplift (steel deck psf)	TAS 114-95D	-1005
Closed Cell, content (%)	D-6226	>90
Air Leakage (L/s/m ²)	E-283	0.002
Noise Absorption (coefficient)	C-423	0.20
Sound Transmission Class (STC)	E-90	34

PROCEDURE

VALUES

RELATIVE INSULATION VALUES (aged):

R-value at 1"	6.3
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REACTIVITY PROFILE/HAND MIX:

	Winter	Summer
Cream Time (seconds)	1-3	4-6
Tack Free Time (seconds)	7-9	11-13
Rise Time (seconds)	12-14	18-24
Cure Time at 77°F (25°C) (hours)	4	4

HANDLING PROPERTIES at 77°F (25°C):

	A SIDE (ISO)	B SIDE (RESIN)
Viscosity, cps	250±50	800±100
Specific Gravity	1.23	1.18

RECOMMENDED PROCESSING INFORMATION (ADDITIONAL DETAILS ON BACK):

Dispensing Ratio	1:1
Hose Heaters	120-140° F (49-60° C)
Primary Heaters (A&B)	120-140° F (49-60° C)
Dynamic Pressure (A&B)	1000 psi minimum
Static Pressure (A&B)	1100-1400 psi
Ambient Temperature**	40-130° F (4-54° C)
Substrate Temperature**	40-180° F (4-82° C)

**Temperatures outside this range are possible, contact SWD for more information

MIXING (ADDITIONAL DETAILS ON BACK):

- Do not mix
- Do not recirculate

RECOMMENDED STORAGE AND SHELF LIFE (ADDITIONAL DETAILS ON BACK):

- Storage temperatures 40-100°F (4-38° C). See back for preconditioning of material.
- Shelf life from date of manufacture (unopened containers):
 - A-Side (iso): 12 months
 - B-Side (resin): 6 months
- Keep container tightly sealed.
- Store out of direct sunlight, in a cool dry place, avoid freezing.

APPROVALS/ COMPLIANCE:

- ICC ESR-2532
- E-108 UL 790 Class A/B Roof System
- UL Class A/B approval # R9303, Const. # 136, 181, 206
- UL Class II #R7332; California Fire Marshal Listing No. 040175-1321:100; City of Los Angeles RR-24072; Miami-Dade County Product Control approved No. 14-1124.02, 14-1124.03, 14-1124.04, 14-1124.05; FM Global approved, California Bureau of Home Furnishings



FIRE RATED ASSEMBLIES:

- Class A and B-UL Roofing Systems R9303
- Class A Combustible Deck-UL Roofing Systems R9303 Assembly #35
- 2 Hour Class A-UL Design P904
- 3 Hour Class A-UL Design P733 and P826

PACKAGING:

275 Gallon Tote
55 Gallon Drum

FINISHED PRODUCT COLOR:

White to off-white (material is not color stable, UV exposure will cause discoloration)

WARRANTY:

SWD Urethane offers material limited warranties on Quik-Shield® 125 roofing foam, free of inspection or fees. System limited warranties are available at an additional cost. All roof warranties must be registered with SWD. See SWD Urethane Warranty Program for required coating thickness and details.

LEED INFORMATION:

- Quik-Shield® 125 has a minimum of 9.8% total renewable/recycle content
- 1.8% pre-consumer recycled
- 4.9% post-consumer recycled
- 3.1% rapidly renewable



*Properties achieved in a lab environment at 77°F. Field conditions may cause variation in properties.



SWD Urethane

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PREPARATION OF SUBSTRATES

Providing the proper substrate is the responsibility of the owner, the owner's appointed representative, the contractor, and/or inspector. The following are manufacturer's recommendations. However, other preparation techniques may be required given unique/specialized application circumstances. Contact SWD for technical questions.

It is recommended to remove dust, dirt, oil, latents, paint, and alternative polymers from all surfaces prior to applying SWD products. All penetrations through the roof, including drains, scuppers, miscellaneous pipe and vent penetrations and electrical conduits, should be completed prior to starting of work. See SWD specifications or SPFA guidelines for further details on substrate preparation.

SWD Urethane warranties have specific preparation requirements. Contact SWD for warranty details.

WOOD

- Ensure wood is relatively dry and protect surfaces from contamination.
- Water or oil present may cause poor adhesion or excessive foaming.
- Plywood joints in excess of ¼" should be taped or filled with a suitable sealant material, prior to application of polyurethane foam.
- If needed, prime the wood deck with Quik-Shield 1000 or 2000. Contact SWD for recommendations.

STEEL & OTHER METALS

- Metal surfaces should be free of all rust, scale, dirt, grease, oil, chalking, paint, or other contaminants.
- It is the responsibility of the contractor/end user to determine proper adhesion and suitability. Blasting and priming is not always required. Contact SWD for recommendations.
- If priming, use Quik-Shield 1000 or 2000 at the rate of ½ gallon per 100 square feet.

CONCRETE

- If applying foam to concrete, the concrete surface should be structurally sound, clean, and dry/cured (typically 28 days).
- Fill large voids with appropriate backer rods or appropriate fillers.
- Blasting and priming is not always required. It is the responsibility of the contractor/end user to determine proper adhesion and suitability. Contact SWD for recommendations.
- If priming, use Quik-Shield 1000 or 2000 at the rate of ½ gallon per 100 square feet.

PREVIOUSLY APPLIED FOAM or OTHER POLYMERS

- As practical, remove previously applied foam and other polymer products. Application of product over existing materials should be performed only after adhesion/compatibility is verified

OTHER SUBSTRATES

- It is the responsibility of the contractor/end user to determine proper adhesion and suitability. Contact SWD for recommendations.

PROCESSING

1. It is recommended to precondition material to 70-80°F prior to application. Material may thicken at lower temperatures which can cavitate pumps.
2. Do not mix.

3. Product should be sprayed with a high pressure plural-component proportioner capable of a minimum of 1000psi dynamic pressure and a maximum pressure differential of 200psi between resin and isocyanate.
4. Static pressure is typically set between 1100 and 1400psi.
5. Primary heaters and hose heaters are typically set between 120 - 140°F. Higher temperatures are utilized in winter months, lower temperatures are utilized in summer months.
6. Proper application temperature setting is the responsibility of the end user. Equipment temperature varies and can be dependent on equipment, hose length, elevation, ambient temperature, substrate temperature humidity, and other factors. Contact an SWD representative for further recommendations.

APPLICATION

See SWD roofing specifications for more detailed application recommendations.

1. Clean surfaces according to "Preparation of Substrates" section.
2. If priming, ensure primer is adequately cured prior to application.
3. Substrate temperatures should be between 40-180°F. Higher and lower application temperatures are possible, contact an SWD representative for more details.
4. Flush an adequate amount of material through the lines/gun prior to spraying desired surface when changing between systems. Flush amount will be dependent on prior system used. Contact an SWD representative for more details.
5. Recirculation is not necessary.
6. Foam should be applied in minimum ½" thick passes and maximum 1½" thick passes to achieve the specified thickness, except where tapering is required to facilitate proper roof drainage.
7. It is recommended that the polyurethane foam be applied to the full specified thickness in any area on the same day.
8. Do not spray if surface moisture is present.
9. Before application, test material to ensure that material sprays, cures, and hardens properly.
10. Inspect applied material intermittently to ensure no problems exist. If problems are detected, discontinue application and inspect all substrates, equipment, gun, and liquid material for problem source(s).

CLEANING AND MAINTENANCE

1. Spray equipment must be maintained in proper operating condition. Failure to adequately maintain spray equipment may result in poor product performance. Refer to your equipment manufacturer's maintenance procedures for more details.
2. Contact SWD for long-term equipment storage recommendations.



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The information herein is believed to be reliable; however, unknown risks may be present. SWD Urethane makes no warranty, expressed or implied, concerning this product's merchantability or fitness for any particular use. The product will meet the written liquid component specifications as indicated on the technical data sheet published at the time of the purchase. The entirety of SWD Urethane's responsibility is limited only to the cost of the SWD material. The foregoing constitutes SWD Urethane's sole obligation with respect to damages, whether direct, incidental or consequential, resulting from the use or performance of the product.

Safety is the responsibility of the owner, the owner's appointed representative, the contractor, and/or inspector. Become familiar with local, state, and federal regulations regarding chemical health, safety, and handling. For more information consult the product SDS, contact the SPFA (www.sprayfoam.org) or the ACC (www.spraypolyurethane.org).