QUIK-**SHIELD 155-2.8**

2.8 lb. Roofing Spray Foam - Low GWP

QUIK-SHIELD® 155-2.8 is a closed-cell, spray-applied polyurethane roofing foam. It creates a monolithic, water resistant barrier that stops air-infiltration and provides excellent insulation. A QS155 roofing system is self-flashing and leak resistant without the use of mechanical fasteners or seams. QUIK-SHIELD 155-2.8 is a low global warming potential (Low GWP) product.

TYPICAL PHYSICAL PROPERTIES

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

	PROCEDURE	VALUES
Air Leakage (L/s/m2)	E-283	<0.02
Closed-Cell, content (%)	D-6226	93
Compressive Strength (psi)	D-1621	47
Core Density (nominal, lb/ft^3)	D-1622	2.8
Tensile Strength (psi)	D-1623	43
Water Vapor Permeance (perms/in)	E-96	<1.5

RELATIVE INSULATION VALUES (aged)

R-value at 1”	5.7

HANDLING PROPERTIES at 77°F (25°C)

	A-SIDE (ISO)	B-SIDE (RESIN)
Specific Gravity	1.23	1.17
Viscosity, cps	250±50	800±50

RECOMMENDED AMBIENT TEMPERATURE FOR PROCESSING

QS155-2.8W (winter)	45-65°F (7-18°C)
QS155-2.8I (intermediate)	65-85°F (18-28°C)
QS155-2.8S (summer)	80-100°F (27-38°C)
QS155-2.8SE (summer extreme)	95-115°F (35-46°C)

RECOMMENDED STORAGE AND SHELF LIFE

- Storage temperatures 50-100°F (10-38° C). See back for preconditioning of material.
- 6 month shelf life (resin) 12 month self life (iso) from date of manufacture (unopened containers).
- Keep container tightly sealed.
- Store out of direct sunlight, in a cool dry place, avoid freezing.

PRODUCT INFORMATION

Global Warming Potential (Low GWP)	QUIK-SHIELD® 155 meets California and Washington states, Low GWP, HFC free, blowing agent mandate for spray polyurethane foam.
LEED	QUIK-SHIELD® 155-2.8 has a minimum of 9.8% total renewable/recycle content, 1.8% pre-consumer recycled, 4.9% post-consumer recycled, 3.1% rapidly renewable
Product Color	Yellow (material is not color stable, UV exposure will cause discoloration)
Product Packaging	275 Gallon Tote and 55 Gallon Drum

APPROVALS / COMPLIANCE

Numerous Assemblies Tested and Approved to UL 790

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.

Wood	• Ensure wood is relatively dry and protect surfaces from contamination. For moisture content exceeding 19%, contact SWD Technical Support. • 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, 1020 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. Contact SWD for recommendations. • If priming, use QUIK-SHIELD® 1000, 1020 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 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, 1020 or 2000 at the rate of ½ gallon per 100 square feet.
Previously Applied Foam or Other Polymers	• As practical, remove same or all previously applied foam and other polymer products. Contact SWD for recommendations. 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

Preconditioning	1. It is recommended to precondition material to 70-80°F prior to application. Material may thicken at lower temperatures which can cavitate pumps.
Mixing	2. Do not mix.
Pressure Settings	3. Product should be sprayed with a high pressure plural-component proportioner capable of a minimum of 1000 psi dynamic pressure and a maximum pressure differential of 200 psi between resin and isocyanate. 4. Static pressure is typically set between 1100 and 1400 psi.
Temperature Settings	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.

Proper application settings is the responsibility of the end user. If additional information is required, contact **SWD Technical Support at 888-380-2022.**

APPLICATION

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 45-180°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 at pass lines, roof penetrations and where tapering is required.
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.

WARRANTY

SWD Urethane offers 5, 10, 15, and 20 year roof warranties. All roof warranties must be registered with SWD Urethane . See SWD Limited Warranty – Roofing Systems and Coatings for required coating thickness and additional details.

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TDS- QS 155-2.8

Final Audit Report 2020-02-03

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