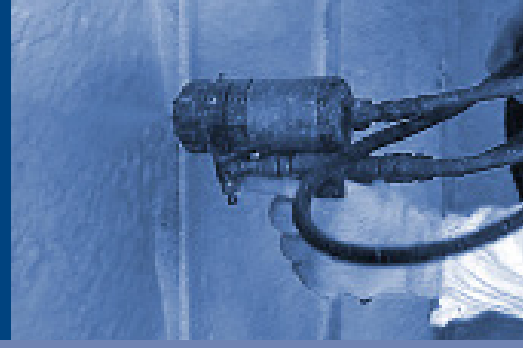


QUIK-SHIELD 118

Ultra-Efficient Closed-Cell Spray Foam



QUIK-SHIELD® 118 is the first Ultra-Efficient closed-cell, spray foam on the market today. It is specially formulated to increase jobsite efficiency, decrease labor and overhead costs, reduce jobsite risk, and deliver the lowest cost installed.

FEATURE-RICH:

- Ultra lift capabilities—up to 8" applications
- Robust Formulation
- Long-Range Application

EXCEPTIONAL CONTRACTOR VALUE:

- Up to 50% increase in jobsite efficiency
- Keeps making good foam, even under adverse conditions
- Up to 20' application range

TYPICAL PHYSICAL PROPERTIES*:

	PROCEDURE	VALUES
Core Density (minimum, lb/ft ³)	D-1622	1.8 - 2.0
Water Vapor Permeance at 1.2" (perms/in)	E-96	0.93
Water Absorption (%)	D-2842	1
Dimensional Stability (%)	D-2126	<3
Tensile Strength (psi)	D-1623	>32
Compressive Strength (psi)	D-1621	25
Closed Cell Content (%)	D6226	>96
Air Permeance (L/s.m ²)	E-283	<0.02
Air Permeance at 1" (L/s.m ²)	E2178-13	<0.02

THERMAL BARRIER

DC 315 (wet mils)	NFPA 286	14
TPR2 FireShell F10E	NFPA 286	17
Flame Control Coatings 60-60A	NFPA 286	20
No Burn	UL1715	14

RELATIVE INSULATION VALUES (°F.ft².h/Btu):

R-value at 1"	6.6
R-value per inch at >3.5	6.5

HANDLING PROPERTIES at 77°F (25°C):

	A SIDE (ISO)	B SIDE (RESIN)
Viscosity, cps	250±50	550±100
Specific Gravity	1.23	1.22

RECOMMENDED PROCESSING INFORMATION (ADDITIONAL DETAILS ON BACK):

Ratio	1:1
Hose Heaters	115-140°F (46-60° C)
Primary Heaters (A&B)	115-140°F (46-60° C)
Dynamic Pressure (A&B)	1000 psi minimum
Static Pressure (A&B)	1100-1600 psi
Ambient Temperature ²	25 - 130°F (-4 - 54° C)
Drum Conditioning Temperature	55 - 80°F (12 - 27° C)

² 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 50-100°F (10-38° 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:

- CCRR-1093
- IBC, IRC, IECC: 2009, 2012, 2015, 2018
- AC377 compliant
- No ignition barrier needed
- Type I-V construction
- Class 1— ASTM E-84
- NFPA 285, E-119
- GREENGUARD Gold Certified



QUIK-SHIELD® 118 has been tested by a third party laboratory (Intertek Testing Services NA, Inc.) and evaluated by Priest and

Intertek

INDUSTRY LEADING TEMPERATURES:

- Continuous use temperature can be as high as 257°F (125°C) and it is dimensionally stable down to -60°F (-51°C).
- Solid performance in all climates, including extreme heat and cold, and high humidity.

PACKAGING:

275 Gallon Tote
55 Gallon Drum

FINISHED PRODUCT COLOR:

White to off-white (UV exposure will cause discoloration, discoloration by itself is not a sign of product damage)

LEED INFORMATION:

- Quik-Shield® 118 has a minimum of 9% total renewable/recycle content
- 2.3% pre-consumer recycled
- 5.2% post-consumer recycled
- 1.6% rapidly renewable



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

** Caution: If the drum temperature is 80°F (26.6°C) or higher, use caution when opening the drum! The contents will be under pressure.

¹Initial R-Value

QUIK-SHIELD 118 *Ultra-Efficient Closed-Cell Spray Foam*

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, paint, and alternative polymers from all surfaces prior to applying SWD products.

See SWD specifications or SPFA guidelines for further details on substrate prep.

WOOD

- Ensure wood is relatively dry and protect surfaces from contamination.
- Water or oil present may cause poor adhesion or excessive foaming.
- Fill large voids with appropriate backer rods or appropriate fillers.
- If additional information is required, contact an SWD representative for more details.

STEEL & OTHER METALS

- It is the responsibility of the contractor/end user to determine proper adhesion and suitability through field testing. Blasting and/or priming is not always required. If additional information is required, contact an SWD representative for more details.

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/or priming is not always required. It is the responsibility of the contractor/end user to determine proper adhesion and suitability. If additional information is required, contact an SWD representative for more details.

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 by the contractor and accepted by the building owner or owner's appointed representative.

WIRING & PLUMBING:

- Quik-Shield® 118 is fully compatible with CPVC piping systems (Paschal Engineering Study for the SPFA)
- Quik-Shield® 118 is compatible with typical electrical wiring coverings.

PROCESSING

1. It is recommended to precondition material to 55-80°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 1600psi.
5. Primary heaters and hose heaters are typically set between 115 - 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. If additional information is required, contact an SWD representative for more details.

APPLICATION

1. Clean surfaces according to "Preparation of Substrates" section.
2. If priming, follow manufacturer recommendations. Ensure primer is adequately cured prior to application.
3. Substrate temperatures should be between 25-130°F Flashing is recommended at lower temperatures. 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. If additional information is required, contact an SWD representative for more details.
5. Do not recirculate.
6. Do not exceed a 8 inch lift per pass. It is the responsibility of the contractor to determine when the first layer has cooled sufficiently for additional passes. SWD recommends waiting a minimum of 20 minutes.
7. Before application, test material to ensure that material sprays, cures, and hardens properly.
8. 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.

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).



SWD Urethane

800-828-1394 • swdurethane.com

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