QUIK-SHIELD 118

Efficient Closed-Cell Spray Foam

QUIK-SHIELD® 118 is the an ultra-efficient, closed-cell spray foam insulation. It is ideal for high–performance and air barrier insulation applications in residential (IRC) and commercial (IBC) construction. QUIK-SHIELD® 118 increases jobsite efficiency, decreases labor and overhead costs, reduces jobsite risk, and delivers the lowest cost installed.

TYPICAL PHYSICAL PROPERTIES

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

	PROCEDURE	VALUES
Air Permeance (L/s/m²)	E-283	<0.02
Air Permeance at 1" (L/s/m²)	E-2178-13	<0.02
Closed-Cell, content (%)	D-6226	>96
Compressive Strength (psi)	D-1621	25
Core Density (nominal, lb/ft³)	D-1622	1.8-2.0
Dimensional Stability (%)	D-2126	<3
Tensile Strength (psi)	D-1623	>32
Water Absorption (%)	D-2842	1
Water Vapor Permeance AT 1.2" (perms/in)	E-96	0.93

RELATIVE INSULATION VALUES (aged)

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

THERMAL BARRIER

DC 315 (wet mils)	NFPA 286	14
Flame Control Coatings 60-60A (wet mils)	NFPA 286	20
TPR² FireShell F10E (wet mils)	NFPA 286	17
No Burn	UL-1715	14

HANDLING PROPERTIES at 77°F (25°C)

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

RECOMMENDED STORAGE AND SHELF LIFE

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

PRODUCT INFORMATION

LEED	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, and IEQ Credit- Low Emitting
Product Color	White to off-white (UV exposure will cause discoloration. Discoloration by itself is not a sign of product damage)
Product Packaging	275 Gallon Tote and 55 Gallon Drum
Reentry Times	1-hour Reentry for new residential construction with natural ventilation. 24-hour reoccupancy for commercial/retrofit

APPROVALS / COMPLIANCE

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

CCRR-1093	NFPA 285, E-119	Type I-V construction, Class 1— ASTM E-84
IBC, IRC, IECC: 2009, 2012, 2015, 2018	GREENGUARD Gold Certified	AC377 compliant, ASTM C1029 Type II

Approved in attics and crawlspaces without a prescriptive ignition barrier or intumescent coating - see CCRR-1093 for details

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 Technical Support at 888-380-2022** for additional 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. For moisture content exceeding 19%, contact SWD Technical Support. • 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 SWD Technical Support.
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 SWD Technical Support.
Concrete	• If applying foam to concrete, the concrete surface should be structurally sound, clean, and curing for 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 SWD Technical Support.
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 and 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. (NEMA Bulletin 95)

PROCESSING

Preconditioning	1. If the drum temperature is 80°F (26.6°C) or higher, use caution when opening the drum! The contents will be under pressure. 2. It is recommended to precondition material to 55-80°F (13-27°C) prior to application. Material may thicken at lower temperatures which can cavitate pumps.
Mixing	3. Do not mix. 4. Do not recirculate.
Pressure Settings	5. Product should be sprayed with a high pressure plural-component proportioner capable of a minimum of 1000 psi dynamic pressure. 6. Static pressure is typically set between 1100-1400psi. 7. Dynamic pressure typically operates at a minimum of 1000psi.
Temperature Settings	8. Primary heaters and hose heaters are typically set between 110-140°F (43-60°C). Higher temperatures are utilized in winter months, lower temperatures are utilized in summer months.

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, refer to QS118 Processing Packet found on swdurethane.com and the SWD mobile app, or contact **SWD Technical Support at 888-380-2022.**

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 (-4-54°C) Flashing is recommended at lower temperatures. Higher and lower application temperatures are possible, contact SWD Technical Support 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 SWD Technical Support for more details.
5. Do not recirculate.
6. QUIK-SHIELD® 118 must not exceed 4" per lift.
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).