



QUIK-SHIELD® | 450

Class 1 Pour Foam Insulation

QUIK-SHIELD® | 450 is a low viscosity, two-component, nominal 2.0lb density, rigid, closed cell, polyurethane pour foam system. It is ideal for use in most types of 1:1 pour foam systems and dispensing equipment.

QUIK-SHIELD® | 450 provides exceptional insulation with an R-Value of 6.125 at 1 inch*. It is certified as a Class 1 - UL 723 insulation system.

QUIK-SHIELD® | 450 creates a seamless, water-resistant barrier that stops air infiltration and removes gaps that allow pests and dust to infiltrate.

QUIK-SHIELD® | 450 is ideal for applications in

- Insulated masonry wall systems
- Structural insulated panels (SIP)
- Refrigerators
- Refrigerated truck bodies
- Cold storage rooms
- Freezer panels
- Door insulation



QUIK-SHIELD® | 450 an ideal insulation solution.

Closed-cell insulation foam is an ideal way to insulate a wide variety of structures. It provides more insulation in less space and allows for greater design flexibility.

It may be used to fill cavities in concrete, cinder block and masonry walls to increase insulation values. It may also be used with fabricated wall-building systems. It is also an ideal insulator for freezers, refrigeration equipment and refrigeration structures

QUIK-SHIELD® | 450 is environmentally friendly.

- Reduces energy consumption
- Zero ozone depletion
- Formaldehyde & VOC free
- Improves indoor air quality
- Promotes sustainable design





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Pour Foam Insulation—Specifications

ACCEPTANCE & COMPLIANCE

APPROVALS/ COMPLIANCE:

Class 1— ASTM E-84 (Flame<25, Smoke<450)
UL-723

WIRING & PLUMBING:

Quik-Shield® | 450 is fully compatible with typical electrical wiring coverings as well as direct contact with CPVC piping systems (Paschal Engineering Study for the SPFA).

LEED INFORMATION:

Quik-Shield® | 450 has a minimum of 7.5% pre-consumer recyclable/rapidly renewable content based on weight (4.5% pre-consumer recyclable, 3% rapidly renewable).

Quik-Shield® | 450 raw materials are blended in Mesa, Arizona. Actual polyurethane end product production is done on-site by the applicator.

VOC level of the finished product is less than 1%.

WARRANTY:

SWD warrants Quik-Shield spray foam insulation, when installed by a certified contractor and applied in accordance with application standards, will not sag or settle for the life of the building. The product will meet the written liquid component specifications as indicated on the product data sheet published at the time of the purchase.

PHYSICAL PROPERTIES

RELATIVE INSULATION VALUES (aged):

R-value at 1" 6.125
R-value per inch at ≥ 4" 5

REACTIVITY PROFILE:

	QS450	QS450ER
Gel Time (machine pour, sec.)	35-40	-
Tack Free Time (machine pour, sec.)	65-70	-
Cream Time (hand mix 75°F, sec.)	12-15	30-40
Gel Time (hand mix, sec.)	80-90	200-230
Tack Free Time (hand mix, sec.)	125-160	420-480
Density (lb/ft³)	1.9-2.2	2.5-2.7

HANDLING PROPERTIES:

	A Side	B Side
Viscosity, cps	500	825
Specific Gravity	1.23	1.23
Mixing Ratio	50	50

PHYSICAL PROPERTIES:

	Procedure	Values
Core Density (lb/ft³)	D-1622	1.9
Water Vapor Permeance (perms/in)	E-96	1.03
Tensile Strength (psi)	D-1623	95.9
Compressive Strength (psi)	D-1621	15
Closed Cell, content (%)	D-2856	83.5

PROCESSING INFORMATION

STORAGE & SHELF LIFE:

- Storage temperatures 65-85°F (18-29° C)
- Shelf life from date of manufacture (unopened containers): A-Side: 12 months
B-Side: 6 months
- Keep container tightly sealed
- Store out of direct sunlight, in a cool dry place, avoid freezing

RECOMMENDED EQUIPMENT SETTINGS:

- Static Pressure (A&B): 1000-1400 psi
- Dynamic Pressure (A&B): 1000 psi minimum
- Primary Heaters (A&B): 100-140°F (38-60° C)
- Hose Heaters: 100-140°F (38-60° C)
- Dispensing Ratio 1:1
- Do not recirculate

MIXING:

- Do not mix

APPLICATION:

- Substrate temperature: 50-130°F (10-54° C)
- Substrate surfaces must be free of moisture, oil, grease, dust and debris.
- When changing between different resin systems, flush adequate amount of material through the gun to clear hose lines of previous material.

HEALTH & SAFETY:

SWD Urethane is committed to the health and safety of our customers. SWD and Quik-Shield® products shall only be installed by a SWD Urethane certified contractor. Applicators are required to follow all proper handling, safety and installation procedures. For more information consult the product MSDS, contact the SPFA (www.sprayfoam.org) or the ACC (www.sprappolyurethane.org). Polyurethane foam systems shall not be left exposed in occupied interior space and must be protected by an approved thermal barrier.

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 only warranty SWD Urethane gives is that the product meets the specifications listed herein, and in the event that it does not, SWD Urethane will replace, at its cost, SWD Urethane's product. 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.



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