



# QUIK-SHIELD<sup>®</sup> | 450

## 2 lb Pour Foam Insulation

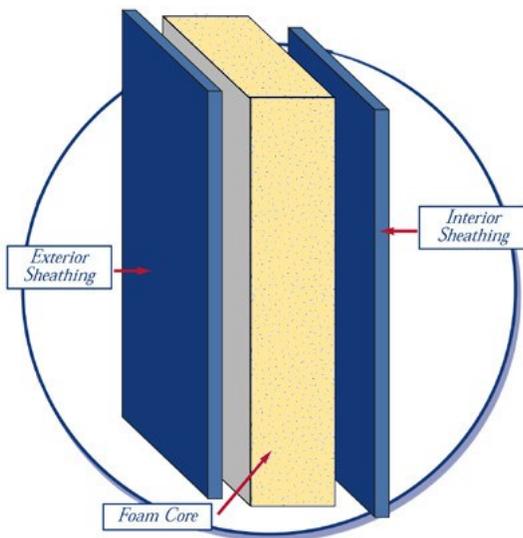
**QUIK-SHIELD<sup>®</sup> | 450** is a low viscosity, two-component, nominal 2.0lb density, rigid, closed cell, polyurethane pour foam system. It is ideal for use in most types of 1:1 pour foam systems and dispensing equipment.

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

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

**QUIK-SHIELD<sup>®</sup> | 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<sup>®</sup> | 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<sup>®</sup> | 450** is environmentally friendly.

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

### **Tested & Approved**

QUIK-SHIELD<sup>®</sup> | 450 is ICC and UL approved and a qualifying material for an Energy Star qualified home.





# QUIK-SHIELD® | 450

## 2 lb Pour Foam Insulation—Specifications

### CHARACTERISTICS

#### SEAMLESS INSULATION:

- No joints or seams to leak air or water
- Reduces dust, gas, odor and noise penetration

#### SELF-ADHESIVE:

- No fasteners needed.
- Adheres chemically to wood, metal, masonry, concrete

#### LIGHTWEIGHT:

- High strength-to-weight ratio

#### SAFE TO USE:

- Contains no Urea Formaldehyde
- Does not release toxic fumes following application
- Contains no carcinogens

#### SHELF LIFE:

- Six months from date of manufacture in unopened containers when stored at 50-80°F
- Store out of direct sunlight
- Remove bung covers with caution

#### MOLD & VOID FILL:

- Free rising to safely completely fill molds, voids and variable space containment and barrier applications

#### APPROVALS:

- ICC ESR-2003
- Class 1 Insulation—ASTM E-84
- UL 723 Class 1

**WARNING:** Polyurethane products manufactured or produced from these chemicals may present a fire hazard if improperly used or allowed to remain exposed or unprotected. The character and magnitude of any such hazard will depend upon a broad range of factors, which are controlled or influenced by the manufacturing or production process, by the mode of application or installation, and by the function and usage of the particular product. Each person, firm or corporation engaged in the manufacture, production, application, installation, or use of any polyurethane product should carefully determine whether there is a potential fire hazard associated with such product in a specific usage, and utilize all appropriate precautionary and safety measures. This numerical flame spread rating does not reflect hazards presented by this or other material under actual fire conditions. Polyurethane foam systems should not be left exposed in occupied interior space and must be protected by a 15-minute thermal barrier.

### PHYSICAL PROPERTIES

#### RELATIVE INSULATION VALUES:

K-Factor	R Value/in.	Thickness
0.163	6.125	1"

#### HANDLING PROPERTIES : (Based on regular grade formulation @ 75°F)

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

#### REACTIVITY PROFILE

Gel Time (machine pour 120°F)	35-40 sec
Tack Free Time (machine pour)	65-70 sec
Cream Time (hand mix, 75° F)	15-20 sec
Gel Time (hand mix)	80-90 sec
Tack Free Time (hand mix)	140-160 sec

#### FINISHED PRODUCT PROPERTIES

	Procedure*	Values
Core Density, pcf. nominal	D-1622	1.9
Tensile Strength	D-1623	95.9
Compressive Strength psi	D-1621	15
Closed Cell Content	D-2856	83.5
Water Vapor Transmission	E-96	1.03 perms

#### PROCESSING INFORMATION:

Pre-heater and hose heater settings should be 110°F-140°F for most types of plural component equipment under normal operating conditions. Use 1:1 dispensing ratio to achieve proper atomization of this product. Static spray pressure should be set at 1000 to 1400 psi. Material should be maintained at a minimum temperature of 50-80° F. Ambient material temperature should be 50-80° F before application. No recirculation. Exact settings may vary depending upon individual machines and environmental conditions.

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.

