



## VFI-711 4# QWIK SPRAY FOAM SYSTEM

### Overview

#### Description

VFI-711 is a two component, nominal 4 pound rigid polyurethane foam. It is intended for pneumatic static mix and external atomization. This system has the benefit of precise ratio control over froth systems. Pneumatic dispense allows for accurate spray control and very flat smooth surface. Material and substrate temperatures and applied thickness will vary yield.

#### Usage

The primary use, in conjunction with VFI-540 is the portable repair of spray foam roof blisters, delaminating of foam roofs, cracks and test cut areas and repairing modifications to existing foam roofs. It is also beneficial for small roofs, leveling of pond areas, details and difficult to reach areas.

### Physical Properties

#### Nominal Density, Sprayed

ASTM D-1622  
 PCF 4.0

#### Compressive Strength

ASTM D-1621  
 Parallel (psi): 73 @ 12%

#### Closed Cell Content

ASTM D-2856 >90%

#### Thermal Conductivity

**BTU/hr ft<sup>2</sup> F/in Factor @ 77°F**  
 ASTM C-518  
 Initial 0.18

#### Thermal Resistance

**BTU/hr ft<sup>2</sup> F/in Factor @ 77°F**  
 ASTM C 518  
 Initial 5.5

#### Humid Aging % Volume Change, 158°F (70°C), 100% RH

ASTM D-2126  
 6 days +3%

#### Cold Aging % Volume Change, -20°F (-29°C)

ASTM D-2126  
 6 days: -1.0%

#### Dry Aging % Volume Change, 158°F (70°C)

ASTM D-2126  
 6 days: +3%

#### Permeance

Less than 1 perm at 3 inches

### Weather & Environmental Performance

#### Weatherability QUV Test Data

Urethane foam is intended to be coated and not exposed to UV light.

#### Service Temperature

-40°F to 180°F

#### Fire Resistance

Not Rated Contact VFI for details

#### Toxicity

Skin contact or inhalation of Isocyanate can cause sensitization. Individuals with asthma, respiratory disease or allergies should not work with sprayed polyurethanes. Please see Safety Data sheet for appropriate PPE.

#### Chemical Resistance

Contact VFI for specific chemical verification

### Liquid Component Properties

#### Ratio

Volume 1 to 1

#### Coverage

One case of six cartridges, 750 x 750 ml, will cover 66 board feet/ ft.

- **Viscosity @ 20°C**  
ASTM D-1638  
"A" side 70-150 cps  
"B" side 350-600 cps

- **Specific Gravity @ 20°C**  
ASTM D-1638  
"A" side 1.23  
"B" side 1.03

- **VOC**  
Conforms to air pollution regulations.  
Contains no volatile organic compounds.

## Application

**PLEASE VIEW THE QWIK SPRAY SYSTEM TRAINING VIDEO BEFORE SPRAYING THE COATING. Call your VFI representative with any questions.**

- **Equipment**  
Apply VFI-711 using the Qwik Spray System pneumatic spray dual cartridge gun. Ensure that the compressed air source is dry, and can provide a constant 10 cfm at 90 psi. Use the static mixer with the air atomizer tip supplied with your cartridges.
- **Material Preparation**  
Cartridges should be approximately 77-85°F before using. Temperature of the product is very important. Shake cartridges for 30 seconds. Install the static mixer onto the cartridge making sure the cartridge stays upright until ready to pull the trigger.
- **Gun Preparation**  
With 110 psi inlet pressure, set fluid flow to maximum and airflow to the atomizer at 25-50 psi. Different material temperatures require different pressures.
- **Spray Techniques**  
Start spraying on a piece of cardboard or other disposable surface until an acceptable spray pattern is achieved. This should take 2-3 seconds. When an acceptable spray pattern has been achieved, fan over to the object working with even passes and build coats to the desired thickness. Visually monitor material levels and stop coating application just prior to emptying the cartridge to ensure that an even ratio of the material is applied to the surface.
- **Storage**  
6 months in unopened containers @ 50-90°F.
- **Mixing Ratio**  
By volume  
% "A" 100  
% "B" 100

- **Spray Reactivity**
  - Tack free: on rise
  - Cure 4 hours

- **Warning!**  
**Do Not Leave Foam Exposed or Unprotected**  
Polyurethane foam is a serious fire hazard if improperly used. Each person, firm or corporation engaged in the manufacture, production, application, installation of polyurethane foam 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 as outlined in local, state and federal guidelines.

These physical property results are typical for this material as applied at our development facility under controlled conditions. The resultant properties can vary with changes in the application parameters; i.e., temperatures, thickness, metal embossment, processing equipment, mix head variations, throughout, etc. Therefore, these published properties are useful for evaluation guidelines. Physical property specifications should be determined from actual production processed material.

Polyurethane foam utilized as an interior insulation system, must be protected by an approved 15 minute, fire rated thermal barrier and meet federal, local and state Building Code approvals.

- **Thinning**  
Do not thin.
- **Packaging**  
6 - 750 x 750 ml dual cartridges are sold in a case.

For more information, contact us today at **800-307-9218**