

POLYURETHANE SPRAY FOAM SYSTEM

■ Description

VFI-714 is a class I, closed cell 1.91 lb., two component, liquid spray applied, HFC blown, rigid polyurethane foam.

■ Usage

VFI-714 is a low density; spray applied polyurethane foam wall insulation. Max service temperature 180°F.

Physical Properties

■ Nominal Density Sprayed

ASTM D-1622
PCF 1.9

■ Compressive Strength

ASTM D-2856
Parallel (PSI): 29@12%

■ Closed Cell Content

ASTM D-2856 >90%

■ Thermal Conductivity, BTU/hr ft² °F/in Factor @ 77°F

ASTM C-518
Initial: 0.1428

■ Thermal Resistance, ft² °Fhr/ BTU*in Factor @ 77°F

ASTM C-518
Initial: 7.0

■ Humid Aging, % Volume Change, 158°F (70°C), 100% R.H.,

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

■ Fire Testing

Class I ASTM E-84
Flamespread Index 15
Smoke Development Index 450

Liquid Component Properties

■ Viscosity @ 20°C

ASTM D-1638
Iso Component: 100-150 cps
Poly Component: 500-650 cps

■ Specific Gravity @ 20°C

ASTM D-1638
Iso Component: 1.23
Poly Component: 1.08

■ 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 Material Safety Data Sheet for appropriate PPE.

Application

■ Mixing Ratio

By Volume:

% "A" 100

% "B" 100

■ Spray Reactivity

Cream Time, Seconds 1

Tack Free = on Rise

Cure 4 hours

■ Surface Preparation

Substrate must be clean, dry and primed. Do not spray when humidity is above 85%, or wind speed is above 10 miles per hour. Insure overspray will not enter vents or damage property. Apply at a minimum thickness of one inch to a maximum thickness five inches per pass.

■ Equipment

A high pressure machine 1:1 ration, 1,000 PSI minimum and 2:1 transfer pump is required. Hose heat and component heaters must maintain 130°F. A Glass Craft gun such as the P2 with a #1 chamber is recommended.

■ Precautions

Keep Polyol drums out of direct sunlight. Store drums below 80°F. Open small bung slowly to relieve pressure. Do not agitate Polyol drum. Welding or hot work should be completed before application of foam. Spray crews must wear appropriate personnel protective equipment. Dispose of empty drums properly.

■ Do Not Leave Foam Exposed Or Unprotected

Polyurethane foam is a serious fire hazard if improperly used or allowed to remain exposed or unprotected. 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, throughput, etc. As a result, 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 & state Building Code approvals.

Corporate Office: P.O. Box 344 / Brookfield, WI 53008 / 800-307-9218 / 262-787-0400 / Fax: 262-787-0500

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