

POLYURETHANE SPRAY FOAM SYSTEM

■ Description

VFI-730 is a two component, liquid spray applied, HFC blown, rigid polyurethane foam. VFI-730 can be ordered in three reactivity grades to meet a wide range of surface temperature conditions: Winter (W), Regular (R) or Summer (S).

■ Usage

VFI-730 is a high density, spray applied polyurethane foam roofing insulation. VFI-730 must be coated with a VFI roof coating or another appropriate coating. VFI-540FR and VFI-600FR are UL rated. VFI-730 is used below grade with VFI-425 water proofing membrane

Physical Properties

■ Nominal Density Sprayed

ASTM D-1622
PCF 2.7 to 2.9

■ Compressive Strength

ASTM D-2856
Parallel (PSI): 49@6%

■ 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 -0.1 %

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

ASTM D-2126
6 Days +7%

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: 1.10

■ 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

Storage above 80°F will shorten shelf life and develop pressure. Vent drum pressure by slowly removing small bung. Polyol above 80°F can cause frothing and off ratio spraying.

■ Mixing Ratio

By Volume:

% "A"	100
% "B"	100

■ Spray Reactivity

Tack Free, Seconds

Winter	2
Regular	3-4
Summer	4-5

■ 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 1½ 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. Do not use diaphragm pumps.

■ Precautions

Keep Polyol drums out of direct sunlight. Open small bung slowly to relieve pressure. Do not agitate Polyol drum. Do not apply more foam than can be coated in a day. 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. Each person, firm or corporation engaged in the manufacture, production, application, install-ation 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.

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