PROZONE™
Polyurethane Spray Foam Roofing System

TECHNICAL DATA SHEET

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ProZONE™ 2.8 SPRAY FOAM SYSTEM

DESCRIPTION:

ProZONE 2.8 is a two component, HFC-245fa blown, all PMDI based spray polyurethane foam system designed for use as a self-adhering, seamless, high insulating, spray applied rigid polyurethane foam roofing system. ProZONE 2.8 will be available in multiple speeds for use in varying temperature conditions. ProZONE 2.8has been formulated to spray at 2.8 pcf depending on lift thickness, and may be used in applications of the Profoam roofing systems.

DISTINGUISHING CHARACTERISTICS:

- Excellent Cure and Overlap Adhesion
- High Yields
- High Closed Cell Content
- Good Dimensional Stability

TYPICAL PHYSICAL PROPERTIES:

Core Density	2.8 pcf
Compressive Strength	54 psi
Tensile Strength	60 psi
Moisture Vapor Transmission	0.92 perm·in
Closed Cell Content	>93%
R Value	6.3 @ 1" 9.8 @ 1.5" 13.4 @ 2" 27.4 @ 4"
Maximum Service Temperature	180°F
Flammability, ASTM E-84	2 inch Flame Spread <75

Note: The above values are average values obtained from a laboratory and should serve only as a guide.

APPROVALS:

This product is classified to UL Standards and requirements by Underwriters Laboratories Inc. when used in accordance with UL's *Roofing Materials and System Directory* and/or UL's *Fire Resistance Directory*. Wind uplift resistance rated at 160-165 psf (depending on construction).

This product is Approved by Factory Mutual Research Corporation subject to the conditions of Approval as a spray foam roof insulation system for use in Class 1 roof construction as described in the current edition of the FMRC *Approval Guide*. Windstorm rated 1-60 to 1-180 (depending on construction).

For proper use of this Profoam roofing material refer to the Profoam Application Information and any of the following codes or guides:

- International Building Code (IBC) Section 2603
- API Bulletin AX 151: *Guidelines for the Responsible disposal of Waste and Containers from Polyurethane Processing*
- API Bulletin AX 205: *Working with MDI and Polymeric MDI: What You Should Know*
- API Bulletin AX 236: *Six Steps for Fire Safety During Construction*

ProZONE™ 2.8 APPLICATION INFORMATION

EQUIPMENT AND COMPONENT RATIOS:

It is preferred that this system be processed with Graco Polyurethane Spray Equipment. ProZONE 2.8 is connected to the resin pumps with ProZONE 2.8 being connected to the isocyanate pumps. The proportioning pump ratio is 1 to 1. Dispensing temperature should be set at 130°F for automatically controlled machinery to give a good pattern. For additional assistance contact Profoam.

PROPER TEMPERATURE AND OPTIMUM FOAM REACTIVITY:

Below are the recommended air temperatures with the proper version of ProZONE for roof work.

50°F to 60°F	60°F & above	75°F & above
Fast	Regular	Slow

Care in selecting the proper reactivity version of ProZONE 2.8 is needed for the combination of adequate curing on the overlap edges and reasonable texture of the foam surface. For temperatures below 50°F contact Profoam for specific recommendations.

STORAGE AND USE OF CHEMICALS:

Keep temperature of chemicals above 70°F for several days before use. Cold chemicals can cause poor mixing, pump cavitation or other process problems due to higher viscosity at lower temperatures. Storage temperature should not exceed 90°F. Do not store in direct sunlight. Keep drums tightly closed when not in use. The R side drum must be kept under dry air or nitrogen pressure of 2-3 psi after opening and during use. The shelf life of ProZONE 2.8 is six months.

SAFE HANDLING OF LIQUID COMPONENTS:

Use caution in removing bungs from the container. Loosen the small bung first and let any built up gas escape before completely removing. Avoid prolonged breathing of vapors. In case of chemical contact with eyes, flush with water for at least 15 minutes and get medical attention. For further information refer to "MDI-Based Polyurethane Foam Systems: Guidelines for Safe Handling and Disposal" publication AX-119 published by Alliance For The Polyurethanes Industry 1300 Wilson Blvd, Suite 800, Arlington, VA 22209.

PREPARATION OF SURFACE TO BE SPRAYED:

All surfaces to be sprayed should be clean, dry, and free of dew or frost. All metal to which foam is to be applied must be free of oil, grease, etc. Primers should be used where necessary. Please refer to Profoam's "Special Bulletin on Recommended Procedures for Applying Profoam Spray Foam Systems on Exterior Roof Surfaces."

PROPER TEMPERATURE FOR OPTIMUM ADHESION:

When the surface temperature will have a service temperature between 120°F and 180°F (#6 oil and resin tanks), the surface to be sprayed should be 120°F or above at the time of spraying. For temperatures over 180°F please contact Profoam for specific recommendations.

WEATHER PROTECTION OF FINISHED FOAM:

The finished surface of sprayed polyurethane foam should be protected from adverse effects of ultraviolet rays of direct sunlight, which can cause dusting and discoloration. Protective coatings designed for use with polyurethane foam are available.

VAPOR BARRIER PROTECTION ON COLD STORAGE WORK:

When sprayed polyurethane foam is used on exterior roofs of freezer or cooler buildings, the exterior coating on the foam should be a vapor barrier. This is because of severe vapor drive from hot roof to cold interior.

PREDICTION OF FIRE HAZARD IN CONSTRUCTION:

ProZONE 2.8 is designed for use as an exterior roof membrane. ProZONE 2.8 is not designed for interior use. Profoam has many other systems designed for interior use; however, where any foam is sprayed in building interiors its exposed surface should be protected from fire hazard by ½" Portland cement plaster or ½" gypsum board or equivalent per applicable building code.

FOR ANY QUESTIONS REGARDING THE ABOVE RECOMMENDATIONS CONTACT PROFOAM

Origination Date: 06/08 Revision 2: 09/14