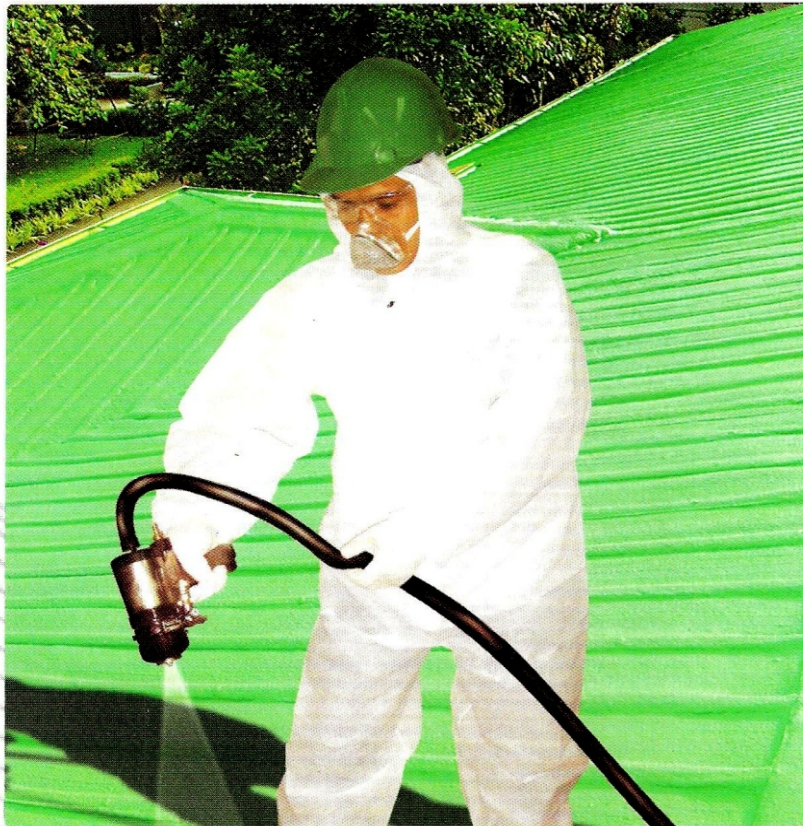
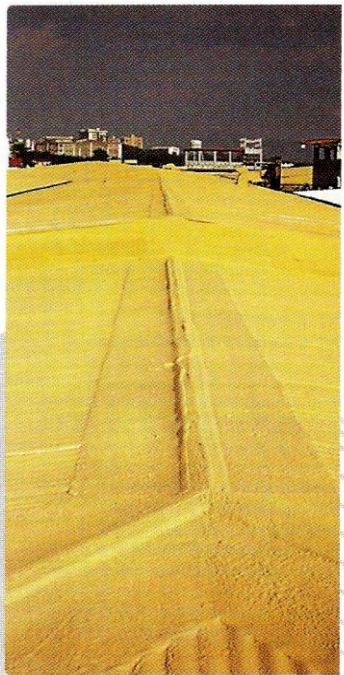




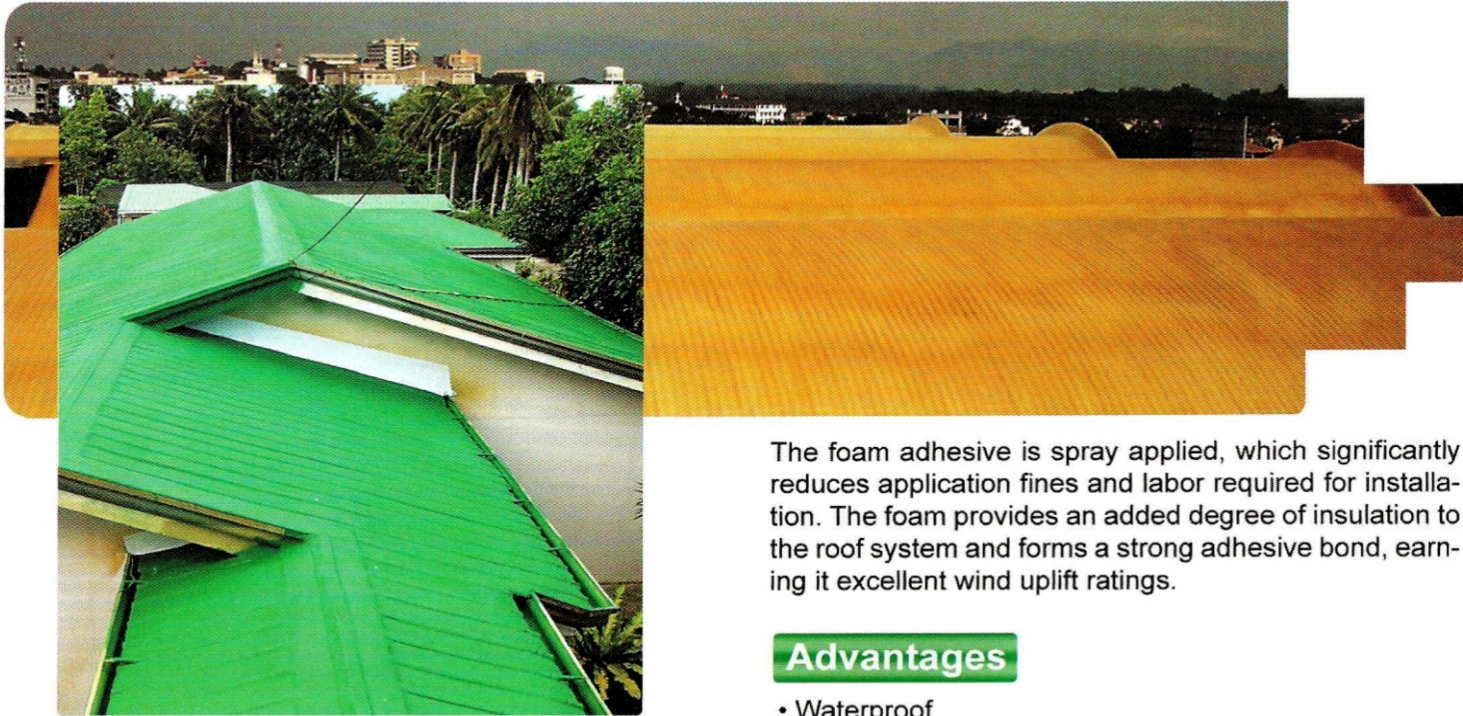
ROOFSEAL FOAM



Sprayed Polyurethane Foam

Seamless Waterproofing and Insulation System
No More to Roof Replacement
Energy Saving and Economical
Anti-Corrosion

ROOFSEAL FOAM



The foam adhesive is spray applied, which significantly reduces application fines and labor required for installation. The foam provides an added degree of insulation to the roof system and forms a strong adhesive bond, earning it excellent wind uplift ratings.

Description

Sprayed Polyurethane Foam (SPF) is a versatile energy sufficient material that is used to provide many solutions for the building and construction industry. SPF insulation combines high insulative value with other attributes that contribute to lower energy used and maintenance costs while increasing durability in buildings. SPF roofing systems provide building owners with attractive sustainable roofing options. The two most prominent benefits are waterproofing leak prevention and insulation value. Many additional benefits also exist such as superior compressive strength, lightweight, self-flashing, durable and long lasting.

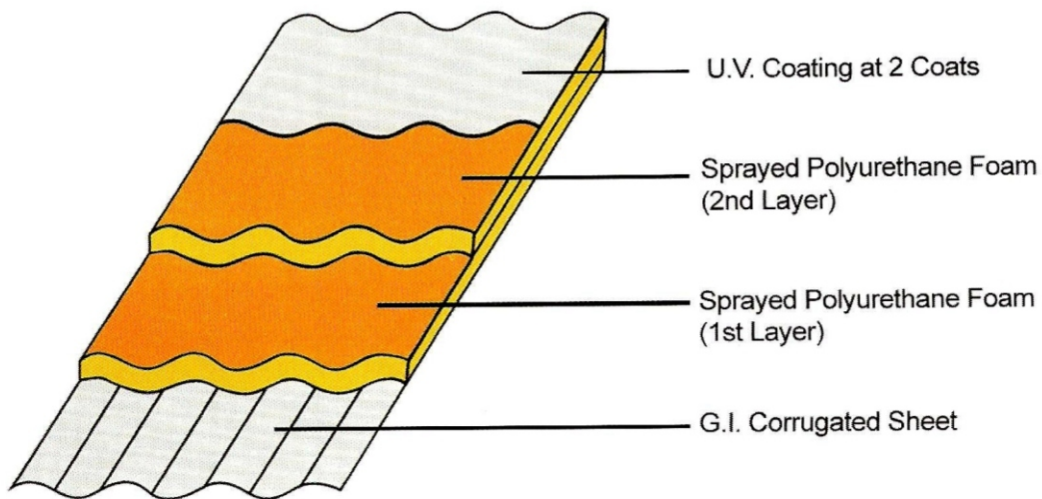
SPF is created by combining a polyol resin B-side containing additive such as blowing agents, catalysts, fire retardants and surfactants with a MDI Isocyanate A side. The exothermic reaction produces a rigid foam plastic that has remarkable sealing, adhesive and insulation properties. Unlike most plastic that are polymerized in chemical factories and delivered to manufacturing plants in the form of pellets or powders, and made into building products, SPF is sold as a liquid system that is reacted by the applicator in the field.

Advantages

- Waterproof
- Heat and Cold Insulation
- Sound Insulation
- Energy Saving
- Anti-Corrosion
- Economical
- Long Lasting
- Light Weight



APPLICATION OF ROOFSEAL SPRAYED POLYURETHANE FOAM (For G.I. Roofs)



ISOMETRIC DETAIL

Thermal Insulation

Sprayed Polyurethane Foam has the highest "R" VALUE of 7.14 per inch thickness, enabling it to provide more (insulation) thermal resistance with less material than any other insulation in the market.

Watertight

Polyurethane Foam is made of billions of minute closed cells that resist the penetration and water vapor. It must however, be protected by an acrylic coating suited for use in that particular environment.

Lightweight

One inch of Polyurethane Foam Insulation plus 15 mils of acrylic coating weighs approximately 1 pound per square feet, as compared to approximately 6 pounds per 1 square foot for a typical conventional four ply built-up roofing system. This makes a Sprayed Polyurethane Foam System ideal for re-roofing as it often possible to apply over an existing roof without removing it.

Flexibility

It has the ability to withstand the structures normal expansion and contraction without affecting the ability to keep the structure protected from the outside elements.

Rigidity

While sprayed polyurethane foam is very light in weight, it is strong and will not pack down or sag. It is guaranteed to last as long as the roof substrate exists.

Ease of Maintenance

Minor repairs or modification to a Polyurethane System can be made by in-house maintenance personnel at minimal cost. All that is needed is a caulking gun.

Economical

Sprayed Polyurethane Foam System can be sprayed directly over your old roof thus eliminating costly and time consuming roof removal, operational shutdown and damaging weather exposure. It is the most economical and practical approach to retrofit (old roof) and for new construction.

Eliminate Flashing Leaks

Because Sprayed Polyurethane Foam conforms to be substrate and when installed, is a seamless systems, it is deal for flashing parapet walls, roof penetration and roof mounted equipment, including vents, pipes, stacks, HVAC equipment, skylights and cooling towers. Many roof leaks are caused by faulty flashing. Sprayed Polyurethane Foam solves the problem.

Long Lasting

The acrylic coating system which protects the Polyurethane Foam can be rejuvenated by the re-application of additional coatings after the initial coatings system has weathered after many years of service.

Versatility

It can be used on both new and replacement roof, whether flat, corrugated, rib-type, domed or having unusual slopes or configurations. It is also ideal for the spray application to tanks, freezers, coolers, pipings, ductwork and various aerospace projects.

Anti-Corrosion

Sprayed Polyurethane Foam effectively shut out oxidation on galvanized steel roofing to prevent corrosion. Coupled with acrylic coating, Insul-Proofing protects against extremes of heat, ozone and ultraviolet rays.

Ease of Application - No tear Off of Old Roof

A sprayed Polyurethane System can be applied in a relatively short period of time with little or no disruption of building operations (ZERO DOWNTIME) by an experienced qualified Polyurethane Foam contractor.

Seamless

Sprayed Polyurethane Foam forms a seamless insulated roofing systems. It has no joints or seams that often allow outside water and air to pass through the roofing systems into the building structure. Whether a roof is 10,000 square feet, 100,000 square feet or larger in size, it will have no seams.

Sound Proofing

Sprayed Polyurethane Foam is an effective sound deadening medium. A substantial degree of sound insulation against rain and other external noises is achieved. Better sound (acoustic) quality is produced.

Environment Friendly

Our Sprayed Polyurethane Foam roofing system adheres to the Montreal Protocol housing non-ozone depleting agents in its application process.

Technical Data

PROPERTY	VALUE	TEST METHOD
Nominal Density	2.2 Lbs./cu. ft. (min)	ASTM D-1622-63
Closed Cell Content	95% by volume (min)	ASTM D-2856-70
Comprehensive Strength Parallel	52 psi min.	ASTM D-1621-73
Shear Strength Parallel	46 psi min.	ASTM O-273-61
Bond Strength	30 psi min.	ASTM O-297
Tensile Strength	70 psi min.	ASTM D-1623
K-Factor	0.14 BTU/hr./s.f./deg F Max Aged @ 77 deg. F.	ASTM C-518-70
R-Value	7.14 per 1 inch thick	ASTM C-518
Water Vapor Transmission	1 perm-inches	ASTM C-355-64
Flammability	Flame Spread 75 or less	ASTM E-84