



GLOSCORE PHILIPPINES, INC.

ROOFSEAL FOAM

SEAMLESS WATERPROOFING AND INSULATION SYSTEM



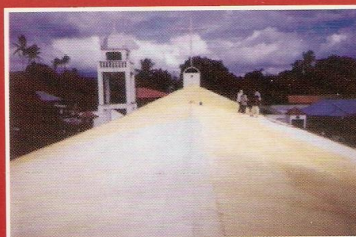
SPRAYED POLYURETHANE FOAM



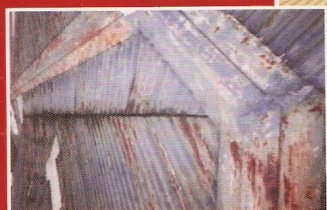
Spray polyurethane foam (SPF) is a versatile energy efficient material that is used to provide many solutions for the building and construction industry. SPF insulation combines high insulative value with other attributes that contribute to lower energy used and maintenance costs while increasing durability in buildings. SPF roofing systems provide building owners with attractive sustainable roofing options.

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.

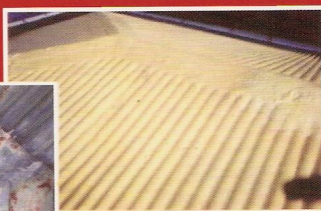
SPF conforms to the surface to which it is applied and forms a seamless layer of insulation. It is well suited to unusual shapes that are hard to insulate with rigid boards. SPF has high mechanical strength and can add to the strength of light weight roof decks. SPF roofing systems exhibit a high degree of sustainable or green characteristics. They are typically applied over existing roof coverings, eliminating the construction debris normally associated with tear-off, provide exceptional energy savings by providing high R-value with no seams, have a long life, resist leaks caused by impact of flying missiles or hail and resist wind uplift.



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Before



After



Pipe insulation



Sprayed Polyurethane Foam

Typical Applications

- G.I. ROOFING
- ROOF DECK
- TEGULLA ROOFING
- WALLS AND PANELS
- TANKS
- SPAS AND HOT TUBS
- PIPES AND DUCT WORKS
- BUS CONVERSIONS
- GAP FILLER
- DOCK, FISHING BOAT
- AND MARINE VESSEL
- AGRICULTURE
- POULTRY AND PIGGERY
- SLOPE CORRECTION
- AIRCRAFT
- THEATRICAL ARTS

ADVANTAGES OF S-P-F ROOFING SYSTEM

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.

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

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, 1000,000 square feet or larger in size, it will have no seams.

ELIMINATE FLASHING LEAKS : Because sprayed Polyurethane Foam conforms to be substrate and when installed, is a seamless systems, it is ideal 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.

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

SOUNDPROOFING: 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.

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

LONG LASTING: The elastomeric coating system which protects the polyurethane foam can be rejuvenate by the re-application of additional coatings after the initial coatings system has weathered after many year 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.

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.

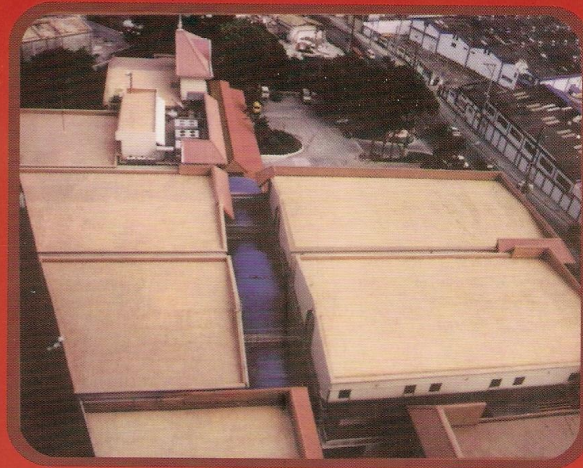
RIGIDITY: While sprayed polyurethane foam is very light in weight, it is strong and will not pack down or sag. It is guaranteed to last as long as the roof substrate exists.

LIGHTWEIGHT: One inch of polyurethane foam insulation plus 15 mils of an elastomeric coating weighs approximately 1 pound per 2 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.

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.

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 hand caulking gun and a tube of caulking.

ENVIRONMENT FRIENDLY: Our Sprayed Polyurethane Foam roofing system adheres to the Montreal Protocol by using non-ozone depleting agents in its application process.



LEGEND VILLAS HOTEL

TECHNICAL DATA:

PROPERTY	VALUE	TEST METHOD
Nominal Density	±2 to ±3 lbs./cu. Ft. (min.)	ASTM D-1622-63
Closed Cell Content	95% by volume (min.)	ASTM D-2856-70
Compressive Strength Parallel	52 psi min.	ASTM D-1621-73
Shear Strength Parallel	46 psi min.	ASTM 0-273-61
Bond Strength	30 psi min.	ASTM 0-297
Tensile Strength	70 psi min.	ASTM D-1623
K-factor	0.14 BTU/hr./s.f./in./deg. F.Max Aged @ 77 deg. f.	ASTM C-518-703
R-value	7.14 per 1 inch thick	ASTM C-518
Water Absorption	00.8 lbs./sqs.ft. (96 hours under 2" head)	ASTM D-2842-69
Water Vapor Transmission	1.Perm - inches	ASTM C-355-64
Flammability	Flame spread 75 or less	ASTM E-84



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ROOFSEAL FOAM

Seamless Waterproofing and Insulation system

It is a Sprayed Polyurethane Foam by combining polyol resin (B) and MDI Isocyanate (A) that provides many benefits to building owner. The two most prominent benefits are waterproofing/leak prevention and high insulation value. It is typically applied over existing roof and deck thus eliminating construction debris and zero downtime normally associated with tear-off, high R-value with no insulation system. Traditional fiberglass insulation is only staple or taped which air infiltration can pass through these gaps making it far less efficient than SPF. Other benefits are superior compressive strength light weight, self flashing, anti corrosion, durable, long lasting, effective sound deadening and protection health from dangerous mold.