

PROACTIVE
*A Hurricane Preparedness Program
for Temporary Re-Roofing*

Installation Process



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Proactive

A Hurricane Preparedness Program for Damaged Roofs

What is PROACTIVE Proactive is an effective Hurricane Preparedness Program (HPP) to specifically address Commercial roof damages immediately following a catastrophe. When your roof blows off, you need immediate access to a quick, efficient and cost effective temporary roof system. Proactive provides this. Our objective is to:

- Mitigate further damage (interior and structurally)
- Restore facility operations to a watertight state
- Provide a leak free environment for at least six months
- Respond Immediately

Who are the Team Members This program was developed by three companies: General Electric, Bayer-BaySystem North America and Servcor International. These firms, which manufacture and market permanent roofs (including the General Electric Roofing System), have the only formalized temporary roof system on the market. Further, it's the only temporary roof system that has a full 6-month manufacturers leak free warranty covering both labor and materials. A warranty backed by a Fortune 50 Company.

Proactive goes further than just providing roof system innovation. It is a "turn-key" hurricane relief solution which implements and manages the entire process. Working under the umbrella of our authorized construction management firm, we incorporate the same team which design and install our 30-year permanent roof system:

Network Partners™:

Our national network of qualified design professionals consisting of roofing and waterproofing consultants, architects, and engineers.

GE Contractor Network:

Our applicator network, consisting of over 60 certified contractors nationwide, perform the actual installation of the temporary roof system

How Does it Work We provide a Master Agreement containing pre-negotiated contract terms, conditions and a fixed unit price structure for repairs. When emergency repairs become necessary, the owner issues an authorization directive (such as a purchase order) which automatically incorporates the terms, conditions and price structure of the Master Agreement.

While most companies offer open ended "cost plus" pricing, we provide a fixed unit cost structure. We have identified the most common types of damage sustained to a roof during a hurricane and assigned a repair cost to each of these items. The damaged roof areas are simply measured and the corresponding unit price is applied. That's it. Very easy to quantify, very simple to use, not open ended. It's a fixed cost.

What Does it Cost This is not an expensive endeavor. In fact, the cost is very minimal. Basically, you pay a minor administrative fee to get setup in our system. That's it. We've already done the hard work, we've thought everything through. We have the team. We have the solution. Join today and become PROACTIVE.

Spray Polyurethane Foam (SPF)

The Best Long Term Temporary Roof

It's no wonder that tarps, rubber sheets and other temporary roofs have no warranty. They leak and blow off during normal thunderstorms. With a long-term temporary SPF roof, you get a six-month leak free warranty. Plenty of time to let things "cool down" and to properly design long-term solutions. Also, once contractors are caught up from all the emergency work, you can get competitive bids and better quality installations on a permanent roof. The SPF long-term temporary roof also lets you begin interior work immediately, with no fear of leaks. Up to 25,000 s.f. of SPF can be installed in one day, so if your priority is to get your facility "back in the dry" quickly, SPF is the smart choice.

The SPF Advantage

- Over 30 years of proven performance
- Cost competitive with other systems
- 1" thick "seamless" waterproofing blanket
- Fully adheres to most any roof system, deck surface and to irregular shaped structures.
- Light Weight: SPF weighs only .33 pounds per s.f.
- Up to 25,000 s.f. installed in one day
- 100% watertight with a six-month leak free warranty.
- Factory Mutual approved with the highest wind uplift rating available.

Imagination at work....





Service:	Temporary Emergency Roof
Size:	30,000 s.f.
Installation:	2 days
Project:	Commerce Park Distribution Center
Location:	Tampa, Florida
Facility Type:	Distribution Center
Owner:	Prologis

During one of Florida's severe tropical storms, Prologis, Americas largest industrial REIT, sustained severe roof damage to one of its distribution centers. Over 25,000 s.f. of roofing plus 5,000 s.f. of structural deck were destroyed.

Hurricane Damage to the Roof is Severe

Heavy debris was scattered throughout the rooftop, falling into holes in the roof and dangling down into the building. This provided an unsafe condition, preventing entry into the building.



Twenty five thousand square feet of single ply roof membrane is completely blown off in the storm.



Torn and ripped single ply roof membrane.



Missing wall flashing.



5,000 s.f. of metal deck is ripped from the structural purlins. Falling debris caused an unsafe condition inside the building.



Metal deck is crumpled and lying in piles on the roof.



Sections of metal deck is scattered around the roof.

Safety is of Paramount Concern

This building had a double layer roof so adding additional weight to the structure was a major concern. For safety reasons, it was presumed to be at or close to its maximum load bearing capacity. Fortunately, SPF weighs only .33 pounds per s.f.



Safety barricades are installed around the areas of missing deck to ensure worker safety.



Four full time safety monitors are stationed around the perimeter of the area while crews work around the immediate area of missing deck.



Fall protection is attached to all crew members that are working inside the safety barriers.



Crew members remove debris from the damaged area. Danger from falling debris was preventing entry into the structure.



Debris is removed from the rooftop.



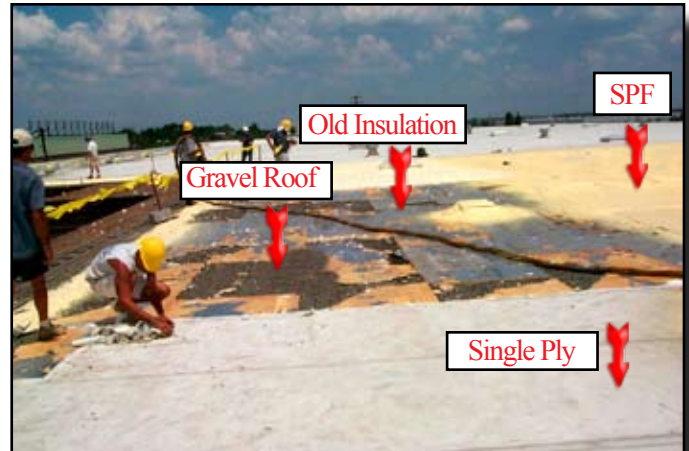
Area around the missing decking is secured and all debris is removed. Entry into the structure is now safe.

SPF Adheres to Most Surfaces

Minimal surface preparation is required for adhesion of the SPF temporary roof. Below, the SPF is spray applied to various substrates including directly to the metal deck, the old built-up roof, the old insulation and to the single ply membrane.



SPF is spray applied directly to the existing single ply membrane.



SPF is spray applied directly to the old insulation board, single ply and to the gravel surface built-up roof.



The SPF is fully adhered to the old roof system.



Loose debris is blown off the surface for better adhesion of the SPF.



The SPF is quickly applied and becomes completely watertight within minutes.



The SPF conforms to the contour of the surface to which it is applied, sealing all cracks and crevices.



Structural Repairs and SPF

The installation includes installing new metal deck, insulation board (if necessary) and the temporary SPF roofing system.



Metal deck is installed and screwed to the existing structural purlins.



The completed metal deck area.



Insulation board is applied to the new metal deck.



The insulation is attached to the metal deck with screws and uplift plates.



SPF is spray applied directly to the insulation board.



SPF is spray applied directly to the insulation board.

Up to 25,000 SF Installed in One Day

When you need to get your facility weathertight and back in business quick, SPF is the answer.



A 1" thick, seamless waterproofing "blanket" adheres to everything.



On large open areas, robotics can be utilized for maximum production.



SPF is spray applied using robotic technology.



Curbs, skylights and wall transitions are quickly and permanently sealed with spray applied SPF.



"Tie-in" area at the missing metal deck area (end of day one.)



"Tie-in" area at the missing metal deck area (end of day one.)

The Finished SPF Roof

The finished temporary SPF roof is completely watertight, is durable and carries a **6-month leak free warranty**. SPF carries the maximum Factory Mutual windup lift rating available providing tenacious “hold down.”



The finished SPF temporary roof system is seamless. No seams means no leaks.



The SPF is fully adhered to the existing surface providing maximum “hold down” capabilities.



SPF is spray applied, filling all cracks and crevices. Skylights and other roof penetrations are easily sealed.



The A/C units were blown off these curbs. Installing plywood over the curbs then completely encapsulating them with SPF easily repairs this condition.



The completed SPF temporary roof system.



The completed SPF temporary roof system.

Adaptable to Most Roofing Substrates



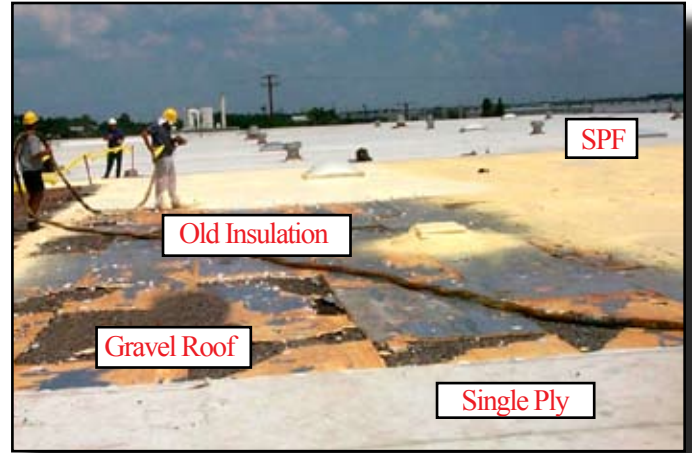
SPF sprayed directly to a corrugated metal deck.



SPF over a sloped fiberglass shingle roof and flat deck. At the transition between the sloped and flat roof, the SPF is monolithic (one solid piece) with no seams to leak.



SPF to a vertical metal mansard.



SPF is spray applied to various materials i.e. directly to a single ply, insulation and a gravel roof.



SPF used for spot repairs to a parapet wall and various areas on a modified bitumen. Note the curb that is completely encapsulated (the fan top had blown off.)



This duct work was crushed in many areas and water was pouring in the building. The entire duct was encapsulated with SPF.

A Solution to Multiple Roofing Systems



SPF over a built-up gravel (BURG) surfaced roof.



SPF over a single ply membrane.



SPF over a modified bitumen.



SPF over a metal roof system.



SPF over a concrete tile system.



SPF over an asbestos shingle system.



GE Wind Energy



Crumpled roof equipment



Overview of completed SPF

Service:	Temporary Emergency Roof
Size:	100,000 s.f.
Installation:	4 days
Project:	GE Wind Energy
Location:	Pensacola, Florida
Facility Type:	Manufacturing Plant
Owner:	General Electric

When 100,000 s.f. of GE Energy's roof blew off during hurricane Ivan, their plant was shut down. Since they had a Hurricane Preparedness agreement in place, TarHeel had their plant completely watertight (100,000 s.f.) and back in operations within 4 days of starting the work.





Service:	Temporary Emergency Roof
Size:	90,000 s.f.
Installation:	5 days
Project:	Northrop Grumman
Location:	Melbourne, Florida
Facility Type:	Manufacturing Plant

Over 90,000 s.f. of roof blew off and extensive damage occurred to parts of the metal deck. Holes and punctures were prevalent in other roof sections that did not blow off. One benefit of SPF is its ability to act as a repair system. For “blown off” areas, a complete SPF system is installed. Damaged areas with holes and punctures are simply patched with SPF.



Failed Temporary EPDM

Service: Temporary Emergency Roof
Installation: 1 day
Project: Trammell Crow
Location: Orlando, Florida
Facility Type: Office Building



Temporary EPDM ripped off in next storm

During the hurricane, the roof on this office building was extensively damaged and a temporary rubber roof (EPDM) was installed. However, during the next thunderstorm, the large sheets of rubber blew off. The owner then decided on a SPF system which lasted the 8 months it took to special order the specialty metal roof panels to match the existing roof.



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