

HydroStop Brochure (COMCO103)

Updated: 8/16



*Quality You Can Trust...From
North America's Largest Roofing Manufacturer!™*



HYDROSTOP[®]

Truly Reliable. Roofing Designed To Last.



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North America's Largest Roofing Manufacturer!™*

Rethink Roofing

The “traditional” roofing industry defines “sustainable” as:

“A roofing system that is... constructed, maintained... and **demolished** ...preserving the global environment.”*

To “demolish” is to put an end to.
Demolishing cannot be defined as “sustainable.”

9 - 10 million tons of roofing waste is sent to U.S. landfills each year.

Rethink Roofing. Specify a TRULY reliable low-slope roofing system that can contribute toward LEED® points so it is safer for the environment and gives you the longevity you deserve!

*Proceedings of the Sustainable Low-Slope Roofing Workshop, Oak Ridge National Laboratory, Oak Ridge, TN, October 1996.



Single-Source Responsibility

The HydroStop® PremiumCoat® System waterproofs most potential leak points: drains, AC curbs, laps, seams, fasteners, parapets, transitions, expansion joints, and skylights.

Keep it Simple

- No tearing off old, worn-out roof
- No heavy equipment
- No solvents
- No building closures

Savings

The roof that pays for itself

- Tax deductions, utility rebates
- Proven to reduce energy costs up to 30%



▲ National Guard Hangar - Jacksonville, FL



▲ National Guard Hangar - Jacksonville, FL



◀ School Roof, GA
Original PremiumCoat® System
Roof Application: 1997, Recoated: 2008

Get The Longevity You Deserve

Roofing tear-offs result in millions of tons of waste being placed in landfills each year. By choosing to install GAF's HydroStop® PremiumCoat® Liquid-Applied Roofing System over an existing traditional system, the need for a tear-off is eliminated and significantly less waste is created.

The **NASA Infrared Telescope Facility (IRTF)** sits 14,000 feet above sea level on Mauna Kea in Hawaii. Mauna Kea's mountaintop experiences severe weather conditions, including 100+ mph winds and chill factors as low as 40° below zero.

Enduring snow storms and intense, mountaintop UV rays, the HydroStop® PremiumCoat® System performs — time and time again.



Each **NASA Crawler** weighs 6 million pounds. The Crawler deck is 8,100 ft², and **houses millions of dollars of sophisticated equipment.**

When panels coated with the HydroStop® PremiumCoat® System need to be removed for access to internal systems, they are cut out, then replaced and recoated for continued water-repellant integrity.

Next Generation

New age. New thinking. New ideas.

So many hot issues to consider:

- Sustainable design
- Single-source responsibility
- Budget conscious
- Reduce greenhouse gases
- Energy cost savings
- Green roof technology
- Can contribute toward LEED® points

One **cool** answer. Going **green** has never been easier!



235,000 ft²

PremiumCoat® System on Existing Buildings

\$2 Million Savings

With an original budget of \$4.1 million dollars, HydroStop cut Tomball High School's roofing installation cost in half. Labor and material costs were significantly less than traditional roofing systems. No tear-offs were required as the PremiumCoat® Roof System is designed for application over various existing substrates.



"The LEED® green building certification program is the nationally accepted benchmark for the design, construction, and operation of green buildings."

PremiumCoat® System

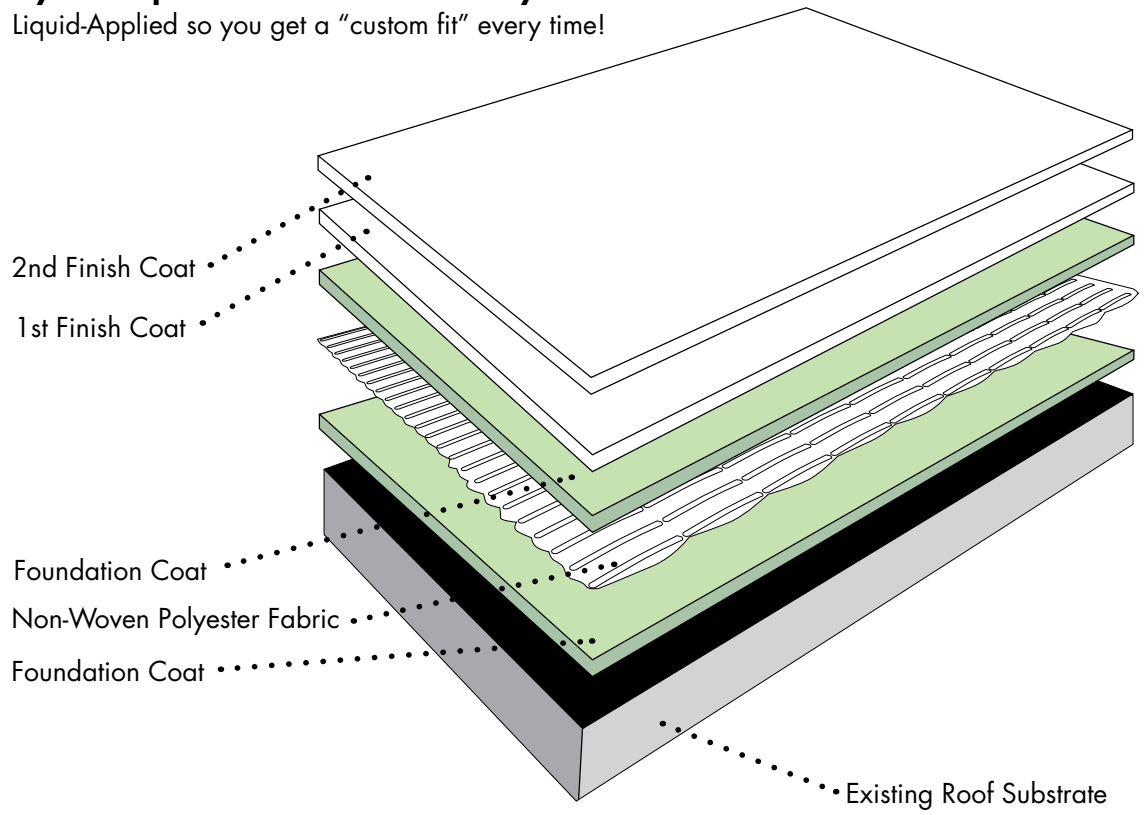
- Can contribute toward LEED® points
- Very low VOC
- Superior UV & weather resistance
- NO building closure
- Simple maintenance
- Unlimited lifespan with periodic recoating
- NO accessories required
- Seamless and self-flashing
- Brush applied
- Certified "Cool Roof"
- High solar reflectivity & thermal emissivity





HydroStop® PremiumCoat® Roof System:

Liquid-Applied so you get a "custom fit" every time!



PremiumCoat® System on New Construction

Gloria Marshall Elementary's 67,000 ft² roof is a testimonial to getting the roof you deserve.

With a highly reflective white roof, the new school's energy bills will be lower.

The "clean" nature of the HydroStop® PremiumCoat® System also lends itself to the school's rainwater collection & reuse efforts.

PremiumCoat® System — No Limitations:

Not limited by size



Not limited by shape



Not limited by design



Traditional Roofing

- 580°F tar
- High VOC
- Hot mopped or torched
- Building closure
- Requires complete tear-off & replacement

50-year building?

Think 50-year roof.

With proper maintenance and recoating.

Nobody builds a brick wall with the intention of demolishing and rebuilding it every 20 years.

Why not use the same logic on the roof?

Every roof is unique.

HydroStop® PremiumCoat® Roof System is the liquid-applied acrylic elastomeric system that provides a custom fit for every application and can contribute toward LEED® points.

Think true reliability. HydroStop® PremiumCoat® Systems are long lasting and safer for the environment.

Solves Every Detail Problem

PremiumCoat® Roofing forms a monolithic system — a waterproofing membrane — that molds and adheres to roof details including: curbs, drains, gutters, penetrations, parapet walls, and skylights.



Internal Drains



AC Curbs



Expansion Joints



Internal Corners



Skylights



FM Class 1 4470
Roof Systems
are tested for:

1. Water Leakage
2. Wind Uplift
3. Hail Damage
4. Flame Spread
5. Resistance to Foot Traffic



Class A Fire Rating
ASTM E108
ASTM D6083
ASHRAE 90.1

ENERGY STAR®
certified (U.S. only)
& CRRC rated.

Eligible products can contribute toward CA Title 24 compliancy, USGBC (LEED®) "cool roof" criteria, or other green building rating systems.





Pick a Substrate, any Substrate

Built-up, EPDM, insulation board, lightweight concrete, metal, plywood or single ply. New construction, existing construction...it doesn't matter.



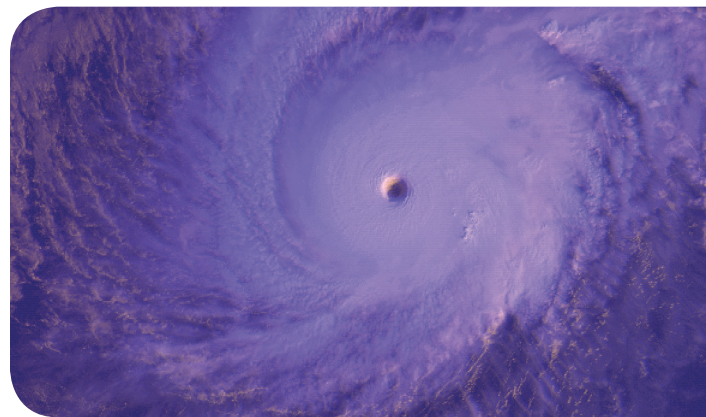
Parapet Walls

Proven Performance: Extreme Weather Resistance

Supertyphoon Paka – Guam, 1997
Sustained winds = 145 mph
Wind gusts > 236 mph
All 240+ PremiumCoat® roofs intact*

Hurricane Ike – Galveston TX, 2008
Sustained winds = 110 mph
Tomball ISD's PremiumCoat® roofs intact*

*See warranty for complete coverage and restrictions.



MIAMI-DADE COUNTY
APPROVED

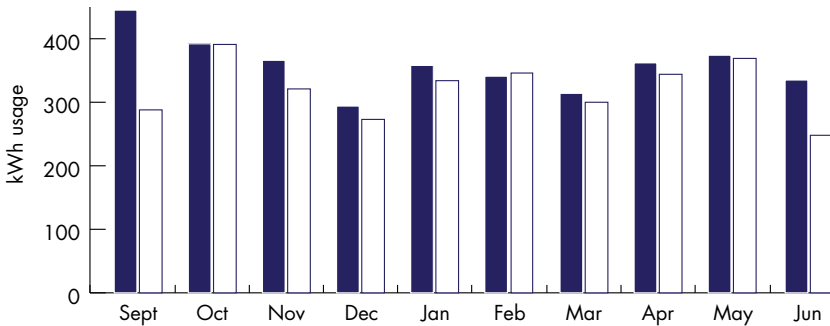
Energy Efficiency

Energy costs are 30% of a typical office building's operating expense.

Every \$ spent on energy costs is a \$ **LOST**

Every \$ spent on a HydroStop® PremiumCoat® System is a \$ **INVESTED**

- Invested in the life cycle of the building
- Invested against future energy costs



Savings You Can See

Tomball High School, Texas – comparison between 2008 and 2009's kilowatt usage. Over \$28,000 saved in energy costs in one school year.

Note: Cost savings are variable and depend on factors such as region and climate.

PremiumCoat® System White Reflectivity

79%

What is a Cool Roof?

"A cool roof **reflects and emits the sun's heat** back to the sky **instead of transferring it to the building below**. 'Coolness' is measured by two properties, solar reflectance and thermal emittance...the higher the value, the 'cooler' the roof."

Source: CRRC website: www.coolroofs.org

Benefits of a Cool Roof:

- Lower internal building temperatures
- Less energy required to cool the building
- Reduces "Urban Heat Island Effect"





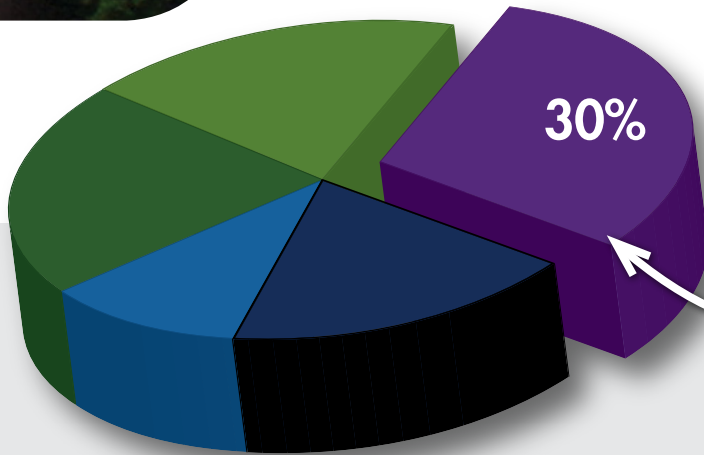
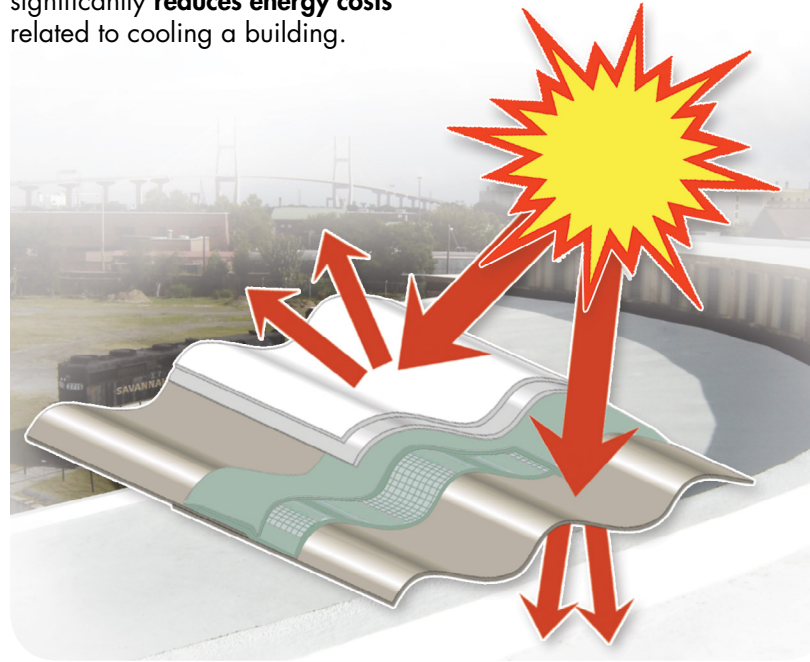
White PremiumCoat® System
SRI 99
(Solar Reflective Index)

Reflectivity = 79%
Thermal Emittance = 90%
– the higher the values,
the “cooler” the roof



Cool Roofs = Cool Savings

The high reflectivity (albedo) and thermal emittance (emissivity) of the PremiumCoat® System **lowers internal temperatures** and significantly **reduces energy costs** related to cooling a building.



Building Operating Expenses

Energy represents 30% of a typical office building's costs. It is a property's single-largest operating expense.

30% – Utilities

- 18% – Cleaning
- 11% – Roads, Grounds, Security
- 22% – Repairs & Maintenance
- 19% – Administrative

Source: www.epa.gov/climateleaders — Data based on 2002 BOMA Experience Exchange Report

White = Energy Saving

250,000 ft²

College Station High School saved \$2.8 million by installing the PremiumCoat® System instead of a traditional roof.

- No tear-offs
- Installed while school was in session
- No new insulation required
- No lifting of AC units
- No raising of drains

In addition to installation savings, the school's highly reflective white roof substantially reduces the amount of energy required to cool the building.



Light-colored vs. Dark-colored Roofs

White roofs reflect the sun's energy, making them cooler than dark-colored roofs, which absorb the sun's energy and transfer the heat to the building below.

Waterproof Solutions for the Building Envelope

Guarantees available up to 25 years*.

One-Stop Shopping + Single-Source Responsibility =

One range of ASTM- and ASHRAE-rated and ENERGY STAR®-certified** products.

HydroStop® Roofing and Waterproofing Products have current Unified Facilities Guide Specifications (UFGS) available for each of your maintenance and construction projects.

*With proper maintenance and recoating. See gaf.com for liquid-applied warranty information. **U.S. only



Unmatched Technical Support

GAF's Technical Sales Representatives will:

- Help evaluate problems
- Facilitate project-specific specifications for engineering and architectural departments through GAF Architectural Information Services
- Train in-house personnel in application techniques
- Recommend experienced, trained HydroStop® applicators
- Facilitate project inspections for guaranteed applications through GAF Field Services Representatives

Why Should You Use the HydroStop® PremiumCoat® System?

- ☑ The PremiumCoat® System complies with Federal mandate 13514:
 - Reduction of greenhouse gas emissions
 - Divert at least 50% of construction and demolition debris
 - Introduce cost-effective, innovative strategies, such as highly reflective roofs to minimize consumption of energy
- ☑ Achieve considerably more coverage within your budget
- ☑ Reduce tear-offs
- ☑ Save on cooling energy costs
- ☑ Can contribute toward LEED® points
- ☑ No disturbance to the occupants during installation





Solutions for Waterproofing the Building Envelope

Roof, Parapets, Details – HydroStop® PremiumCoat® System

Water-based, non-toxic, highly UV resistant, liquid-applied sustainable roofing system. As part of ENERGY STAR® certified (U.S. only) and CA Title 24 Cool Roof program, it can contribute toward LEED® points.

Stucco – HydroStop® FlexCoat Wall Coating

Water-based, non-toxic, crack-bridging elastomeric exterior wall coating. Can contribute toward LEED® points.

Masonry – HydroStop® ClearGuard Plus® System

Water-based, non-toxic, durable clear coating protects masonry, brick, terra cotta, grout, unglazed tile, and stone.

Foundation, Below Grade – HydroStop® BarrierGuard® Waterproofing

Water-based, non-toxic cementitious waterproofing system for foundation walls, concrete panels, exterior basement, and retaining walls.



The GSA Advantage® program provides contracting, building, and maintenance managers with web access to HydroStop® Roofing and Waterproofing Products at exclusive government pricing.

Federal contract number: GS-07F-5988R



The HydroStop® PremiumCoat® System Advantage

- **No Tear-Off**... Means no more sending old roofing materials to the landfill and the disruption and noise that goes with it
- **Proven Effective**... Monolithic and self-terminating means no more seams or complicated flashing details
- **Conserves Energy**... By reflecting heat away from the building and reducing surface temperature of the roof
- **Versatile**... Can adhere to a variety of existing roof substrates, including metal, asphaltic, single ply, and concrete
- **Tested & Guaranteed**... Meets FM 4470 and is UL classified, Miami-Dade County Product Control approved, and guaranteed up to 25 years*



*With proper maintenance and recoating. See gaf.com for liquid-applied warranty information.



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