

PROTAN SLIP-RESISTANT PVC ROOFING PRODUCTS

STRONGER
SAFER
SENSIBLE



LOCATED IN THE HEART OF AMERICA, TRITON INC. STANDS OUT AS A 100% AMERICAN-OWNED COMPANY WITH OVER 40 YEARS OF EXPERTISE. WE PROUDLY MANUFACTURE STRONGER, SAFER, AND SENSIBLE ALTERNATIVES TO TRADITIONAL ROOFING AND WATERPROOFING TECHNOLOGIES.

WE OPERATE FROM OUR HEADQUARTERS IN CEDAR RAPIDS, IOWA, WITH MULTIPLE INTERNATIONAL DISTRIBUTION LOCATIONS. TRITON'S AWARD-WINNING, FORWARD-THINKING PRODUCT TECHNOLOGIES INCLUDE INSTANT-SET LIQUID RUBBER AND SLIP-RESISTANT THERMOPLASTIC MEMBRANES.



From the frigid tundra of Alaska to the humid jungles of Malaysia, Triton's premium products are only as good as the people installing them. Our products are only supplied to and installed by Certified Contractors who are qualified experts in their field. With in-depth, on-site training programs, ongoing technical support, and a comprehensive, cloud-based video library, we ensure clients receive a professionally completed Triton system each time.

TRITON'S INDUSTRIAL-GRADE, NON-TOXIC MATERIALS PROTECT ASSETS AROUND THE WORLD WITH A FOCUS ON SOLUTIONS THAT ARE:

SAFER

- High Coefficient of Friction surfaces for increased slip-resistance and physical safety
- Textured surface means safer installation and safer while in service, as backed by University research studies
- No open flames or hot kettles
- Highly reflective surfaces can provide energy savings and counter heat island effects
- Manufactured from eco-friendly raw materials with hydro-electric power
- ISO 9001 and 14001 compliant
- Installed in virtually any weather conditions

STRONGER

- Industrial-grade flexibility and strength
- Fire-rated, self-extinguishing
- Proven, documented 30+-year lifespan and durability
- Withstands both sub-zero temps and extreme heat
- Seams welded and permanently fused with hot-air
- Excellent puncture resistance and tear strength
- High chemical resistance, ideal for industrial facilities

SENSIBLE

- Minimal disruption to operations, quick installation
- Non-wicking reinforcement scrim
- Visual bleed during welding reduces cold weld risks
- Lightweight, safe for installers and the structure
- Easy to repair and weld after aging

OVER 40 YEARS IN ROOFING EXPERTISE

100% AMERICAN-OWNED

OVER 1 BILLION SQUARE FEET INSTALLED

INDUSTRIAL-GRADE PRODUCTS

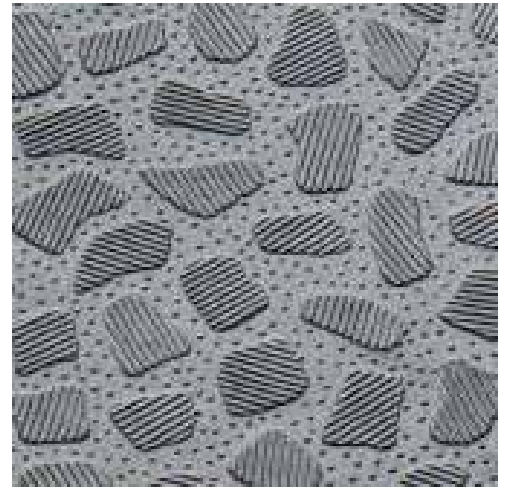
GREEN TECHNOLOGIES

SAFETY FOCUSED



SAFEST THERMOPLASTIC ROOFS

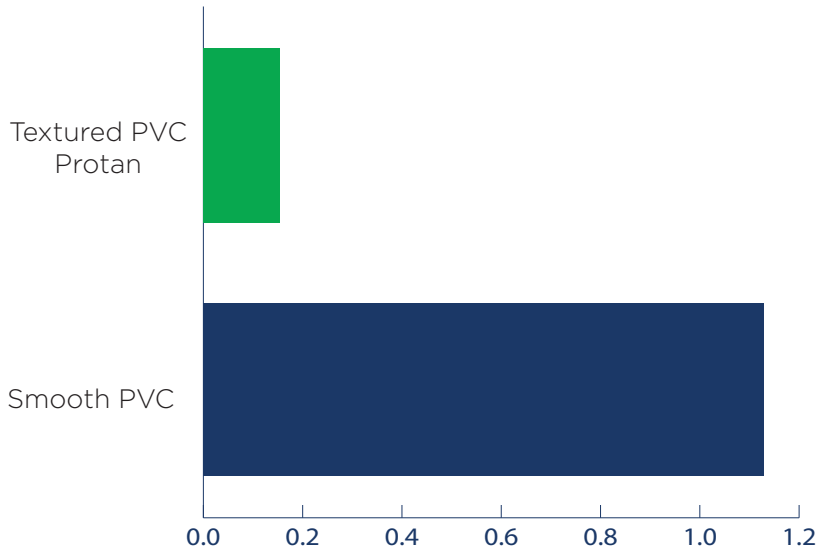
TRITON MANUFACTURES STRONGER, SAFER ROOF SYSTEMS FOR INDUSTRIAL AND INSTITUTIONAL FACILITIES AROUND THE GLOBE.



“Slip-and-fall events consistently rank among the top two most costly incidents of workers’ compensation claims.”

(GieloPerczak, Maynard, & DiDomenico, 2006).

ISU Study: Slides, Slips, & Falls Incident Rate



¹Report on the Findings of the Investigation into the Biomechanical Interactions with Roofing Materials by Dr. Richard Stone, Braden Westby; Iowa State University (ISU).

SLIP-RESISTANCE

Roof-top slip-resistance has often been overlooked in our industry, leading to an increase in occupational injuries from slips and falls when the roof is wet from dew, frost, snow, or rain. Triton is committed to safety and is proud to offer stronger, safer products like Protan, a textured PVC used on over 1 Billion Square Feet around the World for over 60 years.

SAFETY-MINDED CLIENTS

Protan is a superior option for safety-minded clients who want an industrial-grade, textured thermoplastic single-ply roof membrane for roof replacements, overlays, additions, or new construction.

*“This report **recommends** the implementation of materials that are **textured thermoplastics** as the **minimum for safety.**”¹*

Textured vs. Smooth Thermoplastics

55%	decrease in Microslip Events
80%	decrease in Slide events
100%	decrease in Slip & Fall events.



The term slip-resistance is used because the membrane has been tested to have a higher Coefficient of Friction than traditional membranes and will help resist slippage. However, no guarantees against slips and falls exists.

STRONGEST PVC MEMBRANES

TRITON OFFERS A RANGE OF THERMOPLASTIC PVC MEMBRANES FOR FLAT AND LOW-SLOPE ROOFS. THESE MAY BE MECHANICALLY-ATTACHED, FULLY-ADHERED, INDUCTION-WELDED, OR WIND-VENTED (VACUUM). OUR PROTAN MEMBRANES ARE BACKED BY A PROVEN, DOCUMENTED 30-YEAR LIFESPAN ON OVER 1 BILLION SQUARE FEET.



TRITON PROTAN SE

- Polyester-reinforced PVC (polyvinyl chloride) membrane
- Used in mechanically-attached, fully-adhered, induction-welded, or wind-vented assemblies
- Standard 60 mil thickness, with 72 mil and 80 mil available
- Standard roll width is 7.2', for safer, lightweight maneuvering (half-width rolls available)
- FM-Approved, Class A Fire Rating, Severe-Hail rating
- ASTM D4434 compliant
- Available in CoolRoof White, Light Gray, or Dark Gray
- Unique High Friction surface



TRITON PROTAN EX

- Fleece back, polyester-reinforced PVC membrane
- Used in fully-adhered, mechanically-attached, or wind-vented assemblies
- Can be used to recover directly over an existing roof
- Standard 135 mil thickness
- Standard roll width is 7.2', for safer, lightweight maneuvering (half-width rolls available)
- FM-Approved, Class A Fire Rating, Severe-Hail rating
- Available in CoolRoof White, Light Gray, or Dark Gray
- Unique High Friction surface



TRITON PROTAN G

- Fiberglass-reinforced PVC membrane
- Used in mechanically-attached or fully-adhered assemblies
- Used as a flashing membrane in the SE system
- Standard 60 mil thickness, with 72 mil and 80 mil available
- Standard roll width is 7.2', for safer, lightweight maneuvering
- Available in CoolRoof White, Light Gray, or Dark Gray
- Unique High Friction surface



SENSIBLE ROOF SYSTEMS

TRITON'S PROTAN SINGLE-PLY MEMBRANE IS A SMARTER OPTION FOR ROOF REPLACEMENT, NEW CONSTRUCTION, AND RECOVERS COMPARED TO COMMODITY MEMBRANES, WHICH ARE DANGEROUSLY SLICK AND NOT AS STRONG.

- Self-extinguishing, Class A fire rating
- Excellent tear strength and puncture resistance
- Withstands all temperatures and climate zones
- Homogenous, hot-air welded seams
- Non-toxic, eco-friendly, and recyclable
- Textured, high friction surface for safe installation and roof-top traffic
- Great for flat, low-slope, sloped, and barrel roof designs

REPLACEMENT & NEW CONSTRUCTION

When replacing an existing roof with a new system or constructing a new building, safety-minded clients who want a flexible, durable, lightweight thermoplastic membrane choose Triton's Protan PVC with its high friction surface, proven longevity, and sustainability.

- Used in assemblies with Polyisocyanurate, EPS, or Rockwool insulation
- PVC membrane is installed over a cover board for increased hail and puncture resistance and increased lifespan
- May also be used in blue roof, green roof, and plaza deck designs
- Can be recovered with Triton's liquid-applied membrane after warranty has expired
- 20- or 25-year NDL Material & Labor Warranties

RECOVER

When overlaying or reskinning an existing roof with a new membrane to avoid a costly, disruptive tear-off, Triton's lightweight PVC provides a safer, stronger, longer-lasting alternative to conventional thermoplastic membranes.

- Fleece-back membrane can be installed directly over existing roof surface, eliminating the need for a separation layer
- Salvages good, useful insulation without waste and expense
- 20-year NDL Material & Labor Warranty





ATTACHMENT METHODS

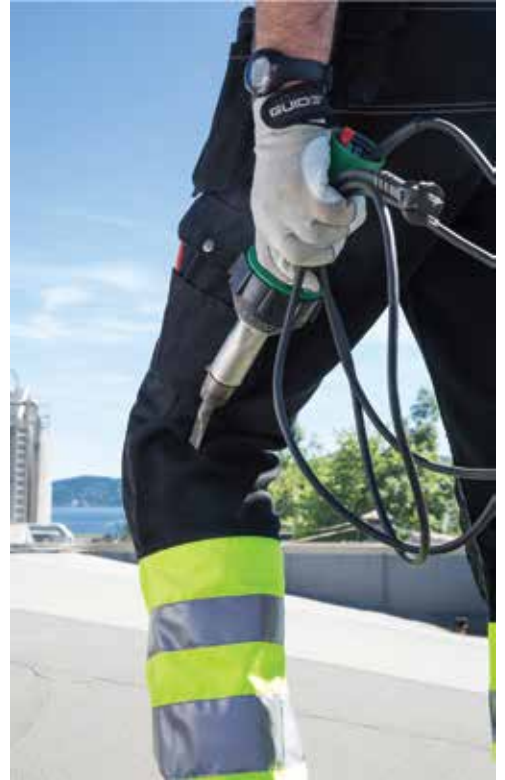
Triton's Protan PVC can be attached to the roof in a variety of ways, dependent upon wind load design and deck type.

- **Mechanically-Attached:**
fasteners and plates secure the membrane into the deck
- **Fully-Adhered:**
liquid adhesives are applied to glue the membrane to the cover board, does not require penetrating the deck
- **Induction-Welded:**
membrane is welded and secured directly to PVC-coated plates, which are used to fasten the underlying insulation and cover board into the deck
- **Wind-Vented:**
unique vacuum vents suck down the membrane with negative-pressure, eliminating the need for fasteners or adhesives



REFERENCES

- AMAZON
- NASA
- JPMORGAN CHASE
- U.S. NAVY
- WELLS FARGO
- XCEL ENERGY
- FEDERAL AVIATION ADMINISTRATION
- U.S. AIR FORCE
- THE KELLOGG COMPANY
- DISNEY
- UNIVERSITY OF IOWA
- IKEA
- DOW CHEMICAL
- EXXONMOBIL





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