

**Firestone**  
**BUILDING PRODUCTS**  
**NOBODY COVERS YOU BETTER.™**



## Firestone Asphalt Roofing Systems

DURABLE. RELIABLE. EXCEPTIONAL PERFORMANCE.



## Acres of Roofing. Decades of Performance.

For more than 20 years, Firestone Building Products has manufactured thousands of versatile, economical, high-quality, built-up and modified bitumen roofing systems. These time-tested roofs are durable, reliable, and deliver exceptional performance in even the most extreme climates and applications. And in keeping with today's environmental concerns, our UltraWhite™ membrane's unique bright white granule surface features the ruggedness of a modified bitumen system and the high reflectivity you need for enhanced energy savings.

### Firestone Asphalt Roofing Systems

Firestone is dedicated to advancing roofing technology, and invests heavily into the innovation of new roofing solutions to significantly strengthen and extend the lifespan of traditional asphalt roofing.

Our state-of-the-art technical center in Fishers, Indiana is the operations center for the chemists, engineers, and technicians who develop and test the latest roofing advancements in both SBS (styrene-butadiene-styrene) and APP (atactic polypropylene) modified bitumen products.

This commitment results in stronger, better performing roofs which exhibit high elongation and elastic recovery as well as enhanced resistance to cyclic fatigue and punctures. Our modified products feature exceptional resistance to wear for a longer lasting, water-resistant roof.

- **Firestone SBS Modified Bitumen Roofing Systems** incorporate a synthetic rubber-based technology which yields exceptional flexibility, even in extremely low temperatures. SBS membranes may be installed in hot asphalt, cold adhesive or they may be heat welded.
- **Firestone APP Modified Bitumen Roofing Systems** feature a thermoplastic bitumen blend with excellent resistance to UV and higher temperatures. APP membranes may be heat welded or applied in cold adhesive.



# Superior Compound Formulation

Setting our modified products apart from conventional asphalt technology, Firestone has developed proprietary elastomeric blends of polymers combined with select grades of refined asphalt for exceptional durability, flexibility, and strength. Its elongation properties and cold-temperature flexibility allow Firestone modified bitumen roofing systems to resist thermal and structural movement – even in temperatures below 0°F.



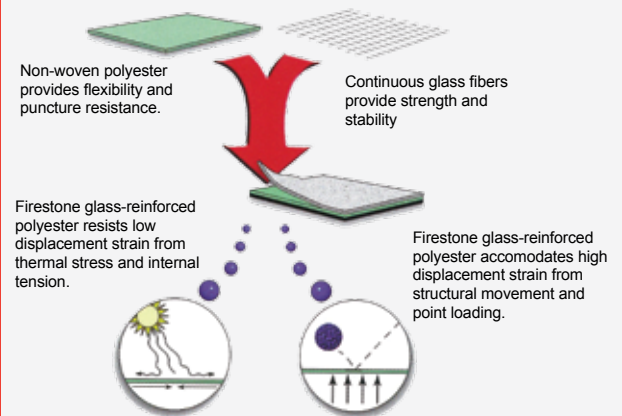
## Innovative Reinforcement Technology

At the core of our modified bitumen roofing systems are high-quality single reinforcing fabrics based on non-woven glass fiber mats or non-woven polyester mats enhanced with continuous glass fiber in the machine direction. The fiberglass lends exceptional strength and dimensional stability to the membrane while the polyester mat provides superior resistance to punctures and tears.

Firestone base sheets typically feature either a glass fiber mat or a polyester mat enhanced with glass fiber. Our SBS Premium Base features a glass fiber mat / glass scrim composite reinforcement.

Firestone base and cap sheet reinforcements come in two main varieties: glass fiber mat or a polyester mat enhanced with glass fiber. In addition, our APP Premium FR, features a tri-laminate mat which uses a high-tensile fiberglass scrim interwoven between two non-woven polyester mats. Needle-punching mechanically binds the three layers together, eliminating the risk of mat delamination.

### ONE FABRIC, MADE IN ONE PROCESS



NOBODY COVERS YOU BETTER™





## UltraWhite Modified Bitumen Cap Sheet

This one-step solution is the ideal way to get the advantages of reflective cool roofing in a modified bitumen system – without the need for liquid coatings immediately after the roof has been installed. Firestone UltraWhite granules are applied to the cap sheet during the manufacturing process to create a highly reflective surface for enhanced energy efficiency consistent with the Cool Roof Rating Council (CRRC) programs.

### Benefits Include:

- Factory-applied reflective granule surface
- Available on all Firestone APP and SBS cap sheets
- May help reduce heat island effects
- Outstanding resistance to abrasion and punctures
- Application methods include heat welding, hot asphalt, and cold adhesive
- Cleaner application without the need for coatings
- Eligible for Firestone RedShield™ warranties up to 25 years, and Platinum™ warranties up to 30 years (depending on the system used)

## LEGENDARY WARRANTIES



# Why Cool Roofs Matter in Southern Climates

Reflective roofs may reduce the heat island effect that occurs when developed urban areas have significantly higher average temperatures than the rural areas surrounding them. Firestone's modified bitumen membranes with UltraWhite granules provide greater light reflectivity and lower heat emissivity than standard white cap sheets, which means the roof's surface stays cooler, with resulting lower building energy consumption and reduced demand for electricity in warmer weather.



Reflectivity	Emissivity	SRI (Initial)
0.73	0.84	89

## Saving Time and Money

### Greater versatility. Easy choice.

Firestone Modified Bitumen Roofing Systems are extremely versatile and provide the architect, contractor, and building owner with the ability to design new or re-roof systems that fit a variety of climates, environments, and applications. The material's intrinsic flexibility easily adapts to building movement while simple, economical installation options help save time and money.

### FIRESTONE BUILT-UP ROOFING (BUR) AND HYBRID SYSTEMS

Firestone offers durable Ply IV (4) and Ply VI (6) asphalt-impregnated, glass fiber mat reinforced roofing felts that can be installed in multiple layers with a flood coat and aggregate or used in combination with modified bitumen in hybrid systems.

### SELF-ADHERED BASE SYSTEMS

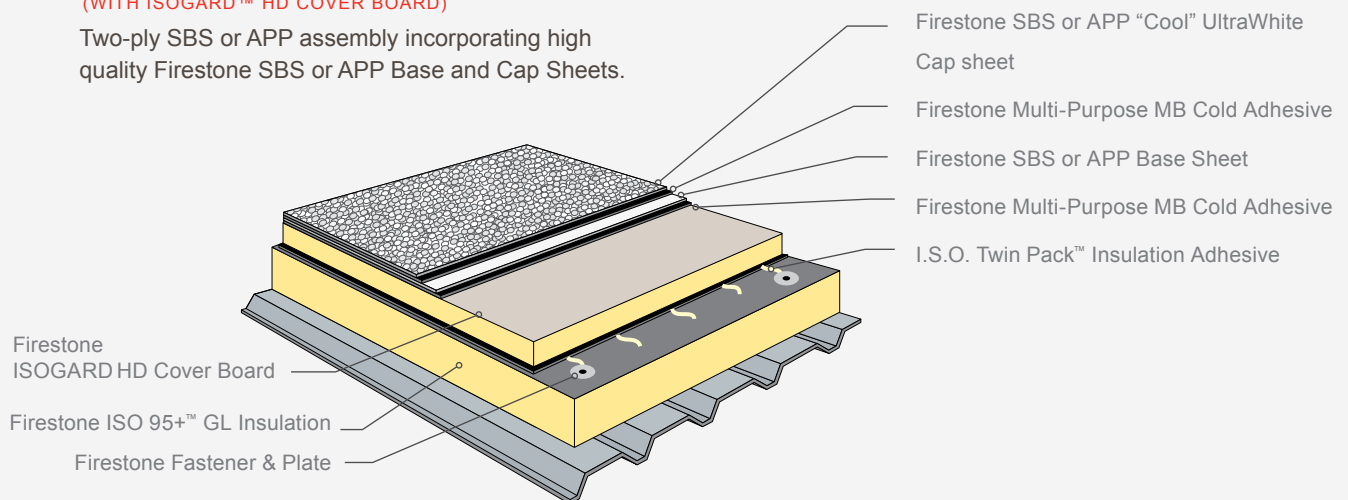
The 2-ply Firestone Self-Adhered Base System combines Firestone BASEGARD™ SA Base Sheet with either an APP or SBS cap sheet torch-applied directly over the base sheet. The system's flexibility allows specifiers to select the cap sheet best suited to job conditions and local installation practices. During torch application of the cap sheet, the fiberglass-reinforced base sheet serves as an effective work platform and thermal barrier. The base sheet also achieves complete fusion with the cap sheet, assuring that the BASEGARD SA Base Sheet works as a redundant monolithic waterproofing layer beneath the cap.





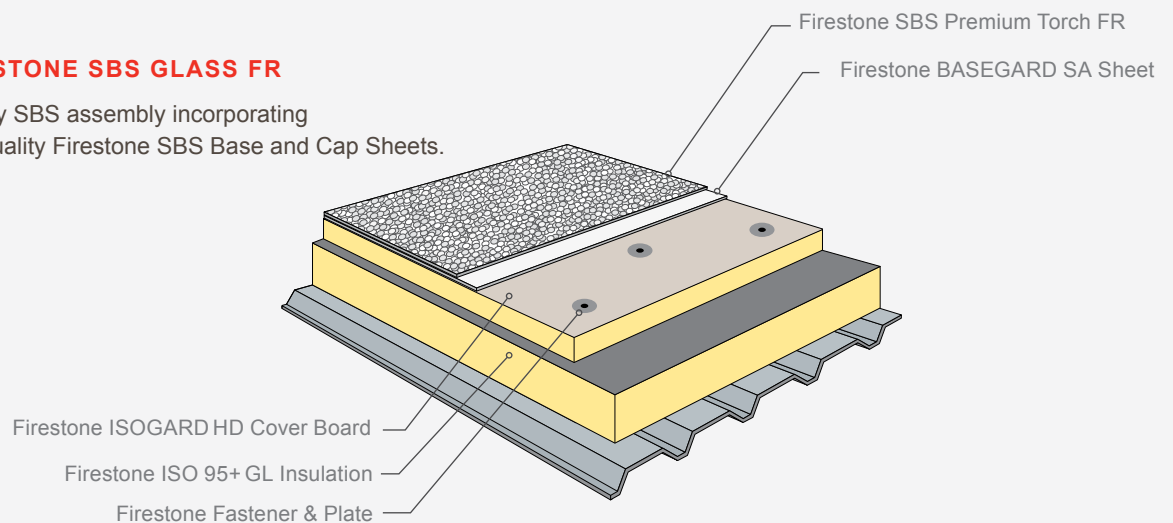
### TWO-PLY SBS OR APP IN COLD ADHESIVE (WITH ISOGARD™ HD COVER BOARD)

Two-ply SBS or APP assembly incorporating high quality Firestone SBS or APP Base and Cap Sheets.



### FIRESTONE SBS GLASS FR

Two-ply SBS assembly incorporating high-quality Firestone SBS Base and Cap Sheets.



# Multiple Features and Easy Installation

## Simple Installation

Firestone UltraFlash Liquid Flashing is installed with a 5-step procedure:

1. Lightly spray UltraFlash LVOC primer



2. Apply the initial layer of UltraFlash Liquid Flashing



3. Apply UltraFlash Fabric over initial application



4. Apply second layer of UltraFlash liquid flashing



5. Apply granules to match roof



## FIRESTONE ULTRAFLASH™ LIQUID FLASHING AND ULTRAFLASH FABRIC

UltraFlash is a 2-part liquid-applied urethane elastomeric flashing and coating that can be easily applied around vents, pipes, drains, wires, and other difficult rooftop details to create a durable, watertight seal. Used in conjunction with UltraFlash Fabric, it adheres well to a variety of substrates including primed metal and glass, concrete, wood, and SBS and BUR membranes.

UltraFlash is available in sets of pails (Part A and Part B) as well as dual cartridges for use with a dispenser gun.

Additional features include:

- Fast cure time of one hour or less, depending on ambient conditions
- Low VOC (88 g/L)
- Forms an impervious chemical bond
- Abrasion, chemical, and UV resistant
- Suitable for ponding water conditions
- Can be painted with Firestone-recommended coating or embedded with granules to match the roof surface

## FIRESTONE LIQUIGARD™ ADHESIVE

LiquiGard Adhesive is a liquid-applied 2-part polyurethane adhesive which chemically cures to form exceptionally strong bonds with SBS and BUR membranes, Polyiso, and most clean and dry construction surfaces.

Since it has no odor and no VOCs, LiquiGard Adhesive is ideal for schools, hospitals, apartment buildings, and anywhere else odors would be objectionable.

Additional features include:

- Durable, watertight bonds
- High wind uplift ratings
- Easily applied with a squeegee
- Eligible for Firestone's Red Shield 25 year guarantee, depending on system used



## Versatile and Reflective

### **FIRESTONE ACRYLITOP™ PC-100 ROOF COATING**

Firestone AcryliTop PC-100 Roof Coating can be applied to all APP, SBS, and smooth BUR roof systems. Available in white, tan, and grey, AcryliTop coatings provide significant solar reflectivity, help extend roof life, and save energy.

A roof properly coated with AcryliTop reflects at least 66% of the sun's energy after three years – that's 30% higher than the minimum aged reflectance requirements of the Environmental Protection Agency's ENERGY STAR® program.

AcryliTop PC-100	Solar Reflectance		Thermal Emittance	
	Initial	3-yr.	Initial	3-yr.
White	0.82	0.73	0.87	0.84
Tan	0.53	0.48	0.88	0.83
Gray	0.32	0.34	0.88	0.82

AcryliTop PC-100 coating can be spray- or roller-applied. When dry, it forms a monolithic coating and resists degradation from ozone and ultraviolet radiation, and provides excellent resistance to weathering and temperature extremes. Firestone Acrylic Base Coat for asphalt must be used when applying AcryliTop PC-100 to asphalt roof membrane systems.



## GRANULE SURFACED MODIFIED BITUMEN

**BEFORE** Acrylic Roof Coating System



**AFTER**



### Firestone Multi-Purpose MB Cold Adhesive and Flashing Cement

Firestone Multi-Purpose MB Cold Adhesive and Flashing Cement are modified with SBS, increasing adhesion to insulation and between plies and offering impressive wind uplift resistance. These products may be used to adhere select Firestone Base Sheets, SBS Cap Sheets, APP Cool Cap Sheets, and as a lap adhesive. Multi-Purpose MB Cold Adhesive is intended for horizontal application while MB Flashing Cement is ideal for vertical applications.

#### Other Available Accessories

- SEBS Mopping Asphalt – Features excellent elasticity, low temperature flexibility and toughness not found in conventional oxidized mopping asphalt
- Pourable Sealer (S-10) – Two-part sealer for penetration pockets, packaged in cans
- Water Block Seal (S-20) – Compression sealant for use at drains, termination bar, and elsewhere as recommended by Firestone
- Ceramic Coated Roofing Granules (in white and black) and UltraWhite Granules
- Firestone Aluminum Fibered Roof Coating – A blend of asphalt, reinforcing fillers and aluminum pigments used as a protective agent and to enhance the solar reflectance

# Asphalt Product Information

Product	ASTM Designation	Compound	Reinforcement	Top Surfacing	Bottom Surfacing	Thickness (mils.)	Net Coverage (sq. ft.)	Weight per Roll (lbs.)
<b>SBS - Standard colors are UltraWhite, white and black. Other colors are available through special orders with minimum purchase required.</b>								
BaseGard SA	1970	SBS Modified Asphalt	1.8 lb/100 ft <sup>2</sup> fiberglass mat	Sand	Release Film	70	196	87
SBS Base Sheet	6163 Type I Grade S	SBS Modified Asphalt	1.9 lb/100 ft <sup>2</sup> fiberglass mat	Sand	Sand	88	150	85
SBS Premium Base	6163 Type II Grade S	SBS Modified Asphalt	Fiberglass/Mat Scrim Laminate	Sand	Sand	85	150	87
SBS Premium Poly Base	6164 Type II Grade S	SBS Modified Asphalt	265 g/m <sup>2</sup> polyester with continuous fiberglass filaments	Sand	Sand	160	101	120
SBS Poly Base	6164 Type I Grade S	SBS Modified Asphalt	190 g/m <sup>2</sup> polyester with continuous fiberglass filaments	Sand	Sand	88	150	90
SBS Glass Torch Base	6163 Type I Grade S	SBS Modified Asphalt	1.9 lb/100 ft <sup>2</sup> fiberglass mat	Sand	Poly Burn-off Film	115	100	85
SBS Glass Torch Base 1.5 Square	6163 Type I Grade S	SBS Modified Asphalt	1.9 lb/100 ft <sup>2</sup> fiberglass mat	Sand	Poly Burn-off Film	90	151	93
SBS Poly Torch Base	6164 Type I Grade S	SBS Modified Asphalt	190 g/m <sup>2</sup> polyester with continuous fiberglass filaments	Sand	Poly Burn-off Film	115	100	85
SBS Smooth	6164 Type I Grade S	SBS Modified Asphalt	190 g/m <sup>2</sup> polyester with continuous fiberglass filaments	Sand	Sand	135	100	93
SBS Cap (UltraWhite, White, Black)	6164 Type I Grade G	SBS Modified Asphalt	190 g/m <sup>2</sup> polyester with continuous fiberglass filaments	Granules	Sand	150	100	97
SBS Torch (UltraWhite, White, Black)	6164 Type I Grade G	SBS Modified Asphalt	190 g/m <sup>2</sup> polyester with continuous fiberglass filaments	Granules	Poly Burn-off Film	145	100	99
SBS FR (UltraWhite, White, Black)	6164 Type I Grade G	Fire Retardant SBS Modified Asphalt	190 g/m <sup>2</sup> polyester with continuous fiberglass filaments	Granules	Sand	145	100	98
SBS FR Torch (UltraWhite, White, Black)	6164 Type I Grade G	Fire Retardant SBS Modified Asphalt	190 g/m <sup>2</sup> polyester with continuous fiberglass filaments	Granules	Poly Burn-off Film	155	100	106
SBS Glass (UltraWhite, White, Black)	6163 Type I Grade G	SBS Modified Asphalt	1.9 lb/100 ft <sup>2</sup> fiberglass mat	Granules	Sand	150	100	101
SBS Glass FR (UltraWhite, White, Black)	6163 Type I Grade G	Fire Retardant SBS Modified Asphalt	1.9 lb/100 ft <sup>2</sup> fiberglass mat	Granules	Sand	145	100	101
SBS Glass FR Torch (UltraWhite, White, Black)	6163 Type I Grade G	Fire Retardant SBS Modified Asphalt	1.9 lb/100 ft <sup>2</sup> fiberglass mat	Granules	Poly Burn-off Film	145	100	101
SBS Premium (UltraWhite, White, Black)	6164 Type II Grade G	SBS Modified Asphalt	265 g/m <sup>2</sup> polyester with continuous fiberglass filaments	Granules	Sand	155	100	101
SBS Premium Torch (UltraWhite, White, Black)	6164 Type II Grade G	SBS Modified Asphalt	265 g/m <sup>2</sup> polyester with continuous fiberglass filaments	Granules	Poly Burn-off Film	155	100	101
SBS Premium FR (UltraWhite, White, Black)	6164 Type II Grade G	Fire Retardant SBS Modified Asphalt	265 g/m <sup>2</sup> polyester with continuous fiberglass filaments	Granules	Sand	155	100	103
SBS Premium FR Torch (UltraWhite, White, Black)	6164 Type II Grade G	Fire Retardant SBS Modified Asphalt	265 g/m <sup>2</sup> polyester with continuous fiberglass filaments	Granules	Poly Burn-off Film	155	100	103
SBS Metal Flash-AL	6298	SBS Modified Asphalt	120 g/m <sup>2</sup> glass mat / glass scrim combination	Embossed Aluminum	Poly Burn-off Film	150	100	100

Product	ASTM Designation	Compound	Reinforcement	Top Surfacing	Bottom Surfacing	Thickness (mils.)	Net Coverage (sq. ft.)	Weight per Roll (lbs.)
<b>APP</b> - Standard colors are UltraWhite, white and black. Other colors are available through special orders with minimum purchase required.								
APP 80 Glass Base	6509	APP Modified Asphalt	1.9 lb/100 ft <sup>2</sup> fiberglass mat	Sand	Poly Burn-off Film	77	194.4	100
APP Premium Base	6509	APP Modified Asphalt	1.9 lb/100 ft <sup>2</sup> fiberglass mat	Sand	Sand	80	194.4	100
APP 160	6222 Type I Grade S	APP Modified Asphalt	190 g/m <sup>2</sup> polyester with continuous fiberglass filaments	Sand	Poly Burn-off Film	156	98	101
APP 160 Cool	6222 Type I Grade S	APP Modified Asphalt	190 g/m <sup>2</sup> polyester with continuous fiberglass filaments	Sand	Sand	150	98	101
APP 170	6222 Type I Grade S	APP Modified Asphalt	190 g/m <sup>2</sup> polyester with continuous fiberglass filaments	Sand	Poly Burn-off Film	173	98	113
APP 170 Cool	6222 Type I Grade S	APP Modified Asphalt	190 g/m <sup>2</sup> polyester with continuous fiberglass filaments	Sand	Sand	173	98	113
APP 180 (UltraWhite, White, Black)	6222 Type I Grade G	APP Modified Asphalt	190 g/m <sup>2</sup> polyester with continuous fiberglass filaments	Granules	Poly Burn-off Film	160	98	101
APP 180 Cool (White, Black)	6222 Type I Grade G	APP Modified Asphalt	190 g/m <sup>2</sup> polyester with continuous fiberglass filaments	Granules	Sand	160	98	101
APP 180 FR (UltraWhite, White, Black)	6222 Type I Grade G	Fire Retardant APP Modified Asphalt	190 g/m <sup>2</sup> polyester with continuous fiberglass filaments	Granules	Poly Burn-off Film	160	98	101
APP 180 FR Cool (UltraWhite, White, Black)	6222 Type I Grade G	Fire Retardant APP Modified Asphalt	190 g/m <sup>2</sup> polyester with continuous fiberglass filaments	Granules	Sand	160	98	101
APP Premium FR (UltraWhite, White, Black)	6223 Type II Grade G	Fire Retardant APP Modified Asphalt	265 g/m <sup>2</sup> polyester with continuous fiberglass filaments	Granules	Sand	173	100	117
<b>BUR</b> - Standard colors are UltraWhite, white and black. Other colors are available through special orders with minimum purchase required.								
MB Base M Sheet	4601 Type II	Oxidized Asphalt	1.9 lb/100 ft <sup>2</sup> fiberglass mat	Sand	Sand	45	300	75
Ply IV (4) M Felt	2178 Type IV	Oxidized Asphalt	1.7 lb/100 ft <sup>2</sup> fiberglass mat	Sand/LPA	Sand/LPA	30	500	42
Ply VI (6) M Felt	2178 Type VI	Oxidized Asphalt	1.9 lb/100 ft <sup>2</sup> fiberglass mat	Sand/LPA	Sand/LPA	35	500	49
Venting Base	4897 Type II	Oxidized Asphalt	1.7 lb/100 ft <sup>2</sup> fiberglass mat	Sand	Sand	115	100	67



# **Firestone**

## **BUILDING PRODUCTS**

### **NOBODY COVERS YOU BETTER.™**


Partnering with Firestone Building Products means superior support that goes beyond the materials you need for your projects. We look at the big picture with you, taking the entire building envelope into consideration, so we can provide you with a complete solution. For exceptionally performing building materials backed by the services, warranty and expertise you need...

## Count on Firestone.



For more information, ask your local Firestone sales rep or visit [firestonebpco.com](http://firestonebpco.com).

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