

**TOPCOAT® Liquid-Applied Roofing Systems**  
**FireShield® SB**  
**(TOPGN160)**

Updated: 7/14



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

**Description**

TOPCOAT® FireShield® SB is a solvent-based, liquid thermoplastic rubber coating that cures to form a seamless rubber membrane. FireShield® SB will maintain or may improve UL rating on select roofing systems or assemblies.\* FireShield® SB is designed to enhance your roof system's protective performance by providing unique fire-extinguishing properties. Special fire-resistant ingredients in the product react with heat and fire, causing a chemical reaction to occur. A non-combustible carbon char layer is formed that retards flame propagation by reducing available oxygen. FireShield® SB (white only) is listed by the Cool Roof Rating Council<sup>SM</sup> for solar reflectance and thermal emittance. Its high reflectivity and thermal emittance will help to reduce heat gain to preserve the roof substrate, lower interior temperatures, and reduce cooling costs. Sprayable, seamless FireShield® systems install fast without the tear-off, staging, and disposal associated with traditional systems. Comprehensive warranties are available.\*\*

**Uses**

TOPCOAT® FireShield® SB is designed to restore BUR, modified bitumen, Hypalon®, TPO, EPDM, metal, wood, and concrete. FireShield® SB is formulated to provide maximum fire protection, increase a roof's reflectivity, and protect the roof substrate from harmful ultraviolet rays. It is highly flexible to accommodate temperature-related expansion and contraction of the roof system, a leading cause of roof system failure. **For proper installation, substrate must have positive drainage (i.e., shall not pond water for a period longer than 48 hours).** Surface must be free of ponding water, ice, snow, and debris

prior to application. Do not apply at temperatures below 32°F. Substrate temperatures must be below 120°F when applying product.

**Advantages**

- FireShield® SB is highly reflective
- FireShield® SB (white only) is listed by the Cool Roof Rating Council<sup>SM</sup> for solar reflectance and thermal emittance
- Ideal for modified bitumen, Hypalon®, BUR, metal, TPO, wood, concrete, and EPDM
- Designed to be applied at temperatures as low as 32°F
- Strong; forms a flexible seal that will not become brittle
- Flexible; will expand and contract with roof
- Limited material warranty available for up to 10 years\*\*
- Guarantees available for up to 10 years\*\*
- Available in 5-gallon pails, 55-gallon containers, and bulk totes

**For Application Questions**

Contact GAF Technical Services at 1-800-766-3411 or visit [gaf.com](http://gaf.com).

**Applicable Standards**

ASTM D412, ASTM B117, ASTM C794, ASTM G21, FTMS 141.6271, ASTM D2196, ASTM D1475, ASTM E1644

**Note:** Repair leaks promptly to avoid adverse effects, including mold growth.

\*Provided the roofing system or assembly is UL Listed.  
\*\*See applicable warranties and guarantees for complete coverage and restrictions.

**TOPCOAT® FIRESHIELD® SB TECHNICAL DATA**

Application Rate:	1.0 to 1.75 gallons/100 sq. ft. per coat
Application Method:	Airless sprayer, roller, or brush
Application Temp (air, surface):	32° – 120°F
Drying Time (75°F, 50% RH):	Approximately 24 hours per coat
Wet Mil Thickness:	(1.0 Gallon/100SF) – 16 wet mils
Dry Mil Thickness:	(1.0 Gallon/100SF) – 8 dry mils
Total Solids (by weight):	66% ± 3%
Total Solids (by volume):	48% ± 2%
Specific Gravity:	1.23 ± 0.09
Weight per Gallon:	10.2 ± 0.5 lbs.
Viscosity (75°F):	11,000 ± 2,000 cps
Tensile Strength:	565 psi ± 10%
Elongation:	550%
Initial Reflectivity:	0.81 (white only)
Aged Reflectivity:	0.71 (white only)
Initial Emissivity:	0.91 (white only)
Aged Emissivity:	0.89, 3 year (white only)
Initial SRI:	101 (white only)
Aged SRI:	87 (white only)
Storage:	Store in well-ventilated area at 50°F to 80°F; protect from freezing
Shelf Life:	1 year
Clean-Up:	Mineral spirits

