

StressPly® SA FR Mineral



OVERVIEW & FEATURES

StressPly SA FR Mineral is an SBS (Styrene-Butadiene-Styrene), dual fiberglass and polyester reinforced, self-adhering, modified membrane incorporating a fire retardant compound and a mineral surface. StressPly SA FR Mineral incorporates the latest in asphalt adhesive technology. StressPly SA FR Mineral is self contained, eliminating the need for a torch, cold adhesives or hot asphalt. Simply position the membrane, remove the release backing and press into place.

StressPly SA FR Mineral is the top ply of a multi-ply roof system consisting of self-adhering base sheet underlayments and the mineral surfaced self-adhering membrane. The self-adhering roof system eliminates odors from solvents in cold adhesives, fumes from asphalt kettles and open flames from torch systems.

Security in Multi-Ply Construction - StressPly SA FR Mineral is the top layer in a multi-ply roof system. It combines the inherent advantages and proven performance of multi-ply protection with the strength, flexibility and elongation of elastomeric systems.

Factory Formulation Reduces Labor Expense - StressPly SA FR Mineral is coated at the factory with reflective mineral granules. Consequently, there's no need to flood coat and gravel or aluminize the membrane's surface. Roof projects can be completed on a more timely basis. The end result is substantial labor expense savings.

Advanced Adhesive Technology - The StressPly SA FR Mineral membrane incorporates the latest in asphalt adhesive technology to ensure excellent adhesion of the completed StressPly SA FR Mineral roofing system.

Superior Strength - The StressPly SA FR Mineral membrane is reinforced with two layers of fiberglass. The superior strength provided by the dual fiberglass scrim resists the movement created by today's modern buildings. In addition, the dual fiberglass and polyester scrim in StressPly SA FR Mineral provides tensile strength in excess of 300 pounds per inch in the machine and cross machine direction. This translates to long-term resistance to splits and tears in the completed roof system.

Superior Fire Resistance - StressPly SA FR Mineral contains a fire retardant that is added to the compound during the manufacturing process. Garland offers fire code approvals for accepted system configurations.

APPLICATION

Starting at the low point of the roof, unroll the self-adhering base sheets in the desired position. Fold the membrane lengthwise back onto itself, remove the split back release film from the exposed side, and gradually push the membrane into place. Apply even pressure along the entire length of the membrane from center outer edges to avoid air pockets. Repeat for the other side. Firmly apply pressure with a suitable weighted roller to ensure 100% adhesion. The cap sheets are installed in shingle fashion throughout the prepared substrate. End laps and any area in which the StressPly SA FR Mineral comes in contact with a mineral surface requires the use of an Garland approved mastic.

NOTE: StressPly SA FR Mineral rolls are individually boxed. Store rolls in these closed containers until ready for installation. Apply when the ambient air temperature, roll temperature and substrate temperature are all 50°F (10°C) or above. Application in cool temperatures will negatively affect adhesion.

NOTE: Black-Knight®/Black-Stallion® Cold or solvent-based coal tar adhesives cannot be used as a flood coat over the StressPly SA system.

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Technical Data	StressPly SA FR Mineral
Tensile Strength	MD 310 lbf./in. (54.25 kN/m) XD 310 lbf./in. (54.25 kN/m)
Tear Strength	MD 500 lbf. (2224 N) XD 500 lbf. (2224 N)
Elongation	MD 3.5% XD 3.5%
Low Temperature Flex	-15° F (-26° C)

Finished membrane meets and/or exceeds ASTM D 6162, TYPE III.

Test Method ASTM D 5147 is tested at:

2 in./min @ 73.4 ± 3.6°F

(50 mm/min @ 23 ± 2°C)

Roll Dimensions	StressPly SA FR Mineral
Width	3 ft. 3 in. (1m)
Length	34 ft. 8 in. (10.57 m)
Weight	100 lbs. (45.3 kg)
Nominal Thickness	140 mils (3,556 microns)
Net Coverage	100 sq. ft. (9.29 m ²)
Packaging	20 rolls/pallet (Individually boxed)

For specific application recommendations, please contact your local Garland Representative or Garland Technical Service Department.



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Tests verified by independent laboratories. Actual roof performance specifications will vary depending on test speed and temperature. Data reflects samples randomly collected. ± 10% variation may be experienced. The above data supersedes all previously published information. Consult your local Garland Representative or the home office for more information.

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