

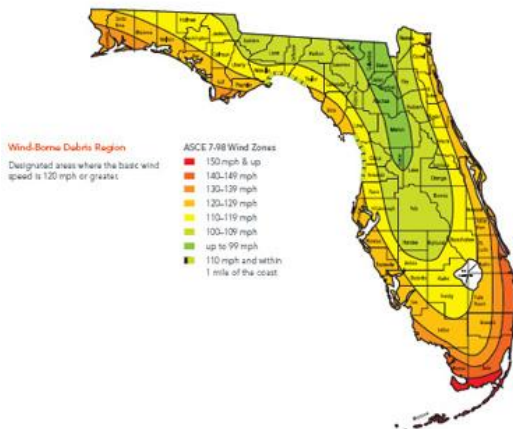
# MineralPlus

ASSA Mineral Plus Systems USA

Sistema de Sellado de techo industrial para techos comerciales donde se requiere un Sistema mucho más resistente, duradero y con las aprobaciones necesarias.



STATE OF FLORIDA  
WIND-BORNE DEBRIS REGION



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Presidente de ASSA

**ASSA Mineral Plus™** is a premium, SBS modified, granule surfaced, polyester reinforced, self-adhesive modified bituminous cap sheet membrane for use in most low slope and steep slope roof system applications. **ASSA Mineral Cap Plus™** is a perfect alternative to the application of roofing using conventional application methods of torching, hot asphalt mopping, or using cold applied adhesives.

**ASSA Base Sheet™** is a SBS modified, glass fiber reinforced, self-adhesive modified bituminous base sheet for use in most low slope and steep slope roof system applications. **ASSA Base Sheet™** has an ultraviolet resistant polyolefinic film surface and is specifically designed for use with **ASSA Mineral Plus™** cap sheets.

**ASSA lay sheet™** is an extremely durable high performance asphalt saturated polyester nailable base sheet for use in most low slope and steep slope roof system applications. **ASSA lay sheet™** unique surface is extremely compatible with **ASSA Mineral Plus™** roofing systems.

## Usage

**ASSA Mineral Plus™** Self-Adhering Roofing Systems are cost-effective and utilize easy-to-apply general purpose roofing sheets designed for use in new roofing and re-roofing. They are ideally suited for residential low-slope applications such as porches and carports or as flashing materials.

## Features and Benefits

- Time-tested "Dual Compound" based SBS peel and stick membrane.
- No specific tools required. Clean, easy to handle, peel and stick self-adhering application.
- No fumes during application, eliminating odors caused by adhesives and hot asphalt.
- 30-40% quicker installation than conventional application.
- Excellent granule adhesion.
- Polyester reinforcement offers superior tensile, tear and elongation properties and ensures exceptional dimensional stability.
- Well defined four inch peel and stick side lap.
- Peel and stick selvage results in instant, watertight lap bond (5X of competitor products).
- Adheres to a variety of substrates.
- Meets and/or exceeds the applicable sections of ASTM D6164 and ASTM D1970 specifications.
- ICC-ES ESR 3297
- Miami Dade County Approval NOA No. 12-0703.05 and 12-0703.06
- Florida Building Code approval FL 9487-R2
- Texas Department of Insurance Approval RC-152
- UL classified (R13228) for use in class A and B roofs (**ASSA Mineral Plus™ FR version**).
- 10, 15, 20 and 25 Year Limited warranties.

## Available Colors

Black, White, Cedar Blend, Dark Brown, Red, Weatherwood, Hickory, Slate Grey and Green.

## Storage

- **ASSA Mineral Plus™** rolls must be stored indoors, in a dry location.
- Boxes must be stored on end only. Do not store in a leaning position.
- The rolls must be protected from the elements. Do not expose rolls to direct sunlight.
- Store rolls at room temperatures. Prolonged exposure to elevated temperatures may reduce the adhesive characteristics of the membrane.

## General Precautions

- Install **ASSA Mineral Plus™ systems** only when material interface temperatures (air, deck, material) are 40°F and rising.
- Do not install when any form of moisture such as water, ice, snow, dew, rain, etc. is present.
- Ensure roof has proper slope and drainage prior to installation. The roof must meet ASSA's minimum slope requirements.
- Proper ventilation is critical. When applying over the entire roof deck, the roofing system must provide sufficient ventilation, including both ridge and soffit venting.
- A full, irreversible adhesion is achieved when the membrane goes through a complete heat cycle. Do not attempt to remove the membrane immediately after adhesion to the substrate.
- Use of a hand-held "hot air gun" might help in enhancing adhesion during application of membrane in cooler weather.

## Surface Preparation

- Surface must be clean, dry, and without voids that may interfere with adhesion.
- For re-roofing, all old roofing and other loose materials must be removed prior to installation.
- When adhering to **ASSA Base Sheet™** self-adhering, remove any loose film from the surface.
- If the **ASSA Base Sheet™** self-adhering has been left exposed for more than 30 days, prime the **ASSA Base Sheet™** surface prior to installation of the **ASSA Mineral Plus™** membrane.
- Acceptable substrates for adhesion of **ASSA Mineral Plus™** membranes can be found on the **ASSA** website.
- For best results, **ASSA Base Sheet™** surface may be primed with an ASTM D41 Primer (**ASSA PA-150**) prior to installation of **ASSA Base Sheet™**. Plus. When primer is used, ensure the primer is fully dry prior to application of **ASSA Base Sheet™** .

## Application

- Cut the **ASSA Membrane System** rolls to suitable, manageable lengths before installation.
- Position the pre-cut beginning at the lowest corner of the roof where the eave (gutter edge) and rake (rising edge) intersect.
- Align so that it is parallel with the edge of the eave and extend over the eave and rake approx. 3/8".
- Starting at the middle and extending to one end of Base Sheet, drive securing nails in 18" centers in the side lap area, 1½" from the edge. Do not drive the nails all the way in.
- Backroll the unsecured portion of the roll up the middle where the first securing nail is driven.
- Apply a 1/16" thick layer of asphalt plastic cement over the eave and rake metal drip edges extending 2" to 3" onto the deck surface where the roll will intersect.
- Carefully remove the release film the full width of the sheet and apply the Base Sheet membrane firmly into place as it is being applied, taking care to avoid wrinkling or creasing of the roll.
- Remove the securing nails from the other half of Base Sheet, backroll and apply in like manner.
- On slopes greater than 2:12, drive nails flush in the selvage area 1½" from the edge on 18" centers, after Base Sheet has been applied and prior to the next overlapping course.
- Apply the next eave course in the same manner overlapping the first course at the end lap by 6".
- Apply a uniform 1/16" thick layer of asphalt plastic cement the full roll width to the surface of the first course in the 6" end lap area before adhering the next course.
- Remove release film covering the selvage, if present, prior to application of the sheet.
- Lap the succeeding course over the side lap area just to the granular edge of the preceding course.
- Apply succeeding courses in like manner, as in steps above.
- Stagger the end laps a minimum 3' from the preceding course.
- Roll the entire membrane surface, paying special attention to side laps, end laps and T-joints. Roller weight shall be 70 lb. minimum for low slope ( $\leq 2:12$  pitch) and 28 lb. minimum for steep slope ( $> 2:12$  pitch).

## Properties

Property	Typical Value	Reference Test
Max. Load @ 0° F, MD & XMD	75 lbf/in.	ASTM D6164
Elongation @ 0° F, MD & XMD	20%	ASTM D6164
Max. Load @ 73.4° F, MD & XMD	55 lbf/in.	ASTM D6164
Elongation @ 73.4° F MD & XMD	35%	ASTM D6164
Tear Strength @ 73.4° F	55 lbf	ASTM D6164
Low Temperature Flexibility	0°F	ASTM D6164
Dimensional Stability, max	1%	ASTM D6164
Compound Stability @ 215° F	Pass	ASTM D6164
Granule Adhesion	1 g. loss	ASTM D4977
Adhesion to Plywood @ 40° F	4 lbs/ft. of width	ASTM D1970
Adhesion to Plywood @ 75° F	25 lbs/ft. of width	ASTM D1970
Thermal Stability, max	0.1 inch	ASTM D1970

## Product Data

Width	36 in.
Length	36 ft.
Thickness	120 mil (nominal)
Gross Coverage	108 sq. ft.
Weight	80 lbs. (nominal)

## Warranty

ASSA Specialty Products, Inc. offers 10, 15 and 20 Year Limited Warranties and a 25 Year Limited Warranty.

**Note:** All statements, information and data, given herein are believed to be accurate and reliable, but are presented without guaranty; warranty or responsibility of any kind, expressed or implied, except as may be indicated otherwise in this literature.