



GenFlex™ SBS SA Roofing Systems Application Guide

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NOTE: The contents of this guide are considered accurate at time of posting. All information contained within should be validated for accuracy as it relates to specific project conditions or requirements. Specific codes, uplifts or other factors may result in changes to the information contained within this document. Validate all specific conditions with a Regional Technical Coordinator prior to its use.

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INTRODUCTION

Self-Adhered Technology has transformed the modified bitumen industry through the development of dual-compound self-adhered (SA) membranes. These membranes feature a true SBS formulation on the upper weathering surface and an advanced self-adhered compound on the bottom layer of the reinforcement.

This innovative technology incorporates patented design elements that enhance lap adhesion with a granule-free side lap. GenFlex™ SBS SA systems deliver exceptional versatility, offering comprehensive solutions to meet diverse project specifications and roof design requirements.

Backed by years of proven field performance, GenFlex Self-Adhered (SA) membranes represent the leading edge of asphalt adhesive technology and waterproofing performance. When properly installed, GenFlex products provide a long-lasting, durable, and reliable roofing system.

Table 1: Asphalt Membrane Offering

SBS SA MEMBRANE OFFERING				
Membrane	Compound	Surface	Reinforcement	Thickness
SBS FR SA Cap	Fire Retardant SBS	Granule	Polyester	140 mil (3.5 mm)
SBS SA Cap	SBS	Granule	Polyester	140 mil (3.5 mm)
SBS FR SA Base	Fire Retardant SBS	Film	Fiberglass	80 mil (2.0 mm)
SBS SA Base	SBS	Film	Fiberglass	80 mil (2.0 mm)
SBS NON-SA BASE SHEET MEMBRANE OFFERING				
Membrane	Compound	Surface	Reinforcement	Thickness
SBS FF Torch Base	SBS	Film/Film	Fiberglass	80 mil (2.0 mm)
SBS FS Base	SBS	Film/Sand	Fiberglass	80 mil (2.0 mm)

Table 2: Evaluated GenFlex Membranes

EVALUATED GENFLEX MEMBRANES					
Type	PDS	Product	Material Standard		
			Reference	Type	Grade
CAP SHEETS	615	SBS FR SA CA BLACK	ASTM D6164	I	G
	615	SBS FR SA REFLECTIVE WHITE	ASTM D6164	I	G
	615	SBS FR SA WHITE	ASTM D164	I	G
	616	SBS SA CA BLACK	ASTM D6164	I	G
	616	SBS SA CA REFLECTIVE WHITE	ASTM D6164	I	G
	616	SBS SA CA WHITE	ASTM D6164	I	G
BASE SHEETS	617	SBS FR SA BASE	ASTM D6163	I	S
	618	SBS SA BASE	ASTM D6163	I	S
	536	SBS FF Torch Base	ASTM D6163	I	S
	537	SBS FS BASE	ASTM D6163	I	S

General

This Guide includes instructions for the installation of GenFlex SBS Self-Adhered (SA) Roofing Systems. References to the Design Guide, Product Data Sheets (PDS), Detail Drawings and other sections of the GenFlex Technical Database are necessary to ensure the completed roofing system is installed in accordance with GenFlex requirements when projects require a GenFlex System Warranty.

SBS SA Warranty Critical Information:

! This guide notes specific application requirements when GenFlex SBS SA System Warranties are requested. Please review this document, Design Guides, Specifications, and Details for further information. Please contact a GenFlex Regional Technical Coordinator for additional information or questions.

! **NOTE:** IF A PROPOSED APPLICATION FALLS OUTSIDE OF THIS SPECIFICATION, CONTACT GENFLEX TECHNICAL SERVICES FOR ASSISTANCE.

Jobsite Considerations

Safety

- Comply with all applicable regulatory safety and health regulations.
- Consult container labels, Safety Data Sheets (SDS) and Product Data Sheets (PDS) for specific safety instructions for all products used on the project.
- Keep all adhesives, sealants, and cleaning materials away from ALL ignition sources (i.e., flames, fire, sparks, etc.). Do not smoke while using these materials.
- Care must be used when installing fasteners or other required roof related items to avoid possible conduits and other piping in or under the deck.
- Fumes from adhesive solvents may be drawn into the building during installation through rooftop intakes. Take suitable precautions when using such products on an occupied building.
- Do not use heat guns or open flames to dry adhesives and primers.

Cautions

- Store SBS SA membranes in the original undisturbed plastic wrap in a manner to protect it from becoming damaged. Insulation must be properly stored and protected from ignition sources, moisture, and damage. Consult container labels, Safety Data Sheets and Technical Information Sheets for specific safety, use and storage instructions for all products used on the project.
- Store GenFlex Insulations properly protected from ignition sources, moisture, and damage.

Cold Weather

- When the outside temperature is below 40 °F (4 °C), certain combinations of temperature and humidity may cause condensation on the surface of solvent-based adhesives and primers. If this condition occurs, discontinue the application. When the ambient air conditions no longer cause condensation on adhesive surfaces and the membrane is clean and dry then proceed with application of adhesive or primer.
- The consistency of sealants, adhesives and primers will begin to thicken as the temperature drops. To minimize this consequence:
 1. Start work with sealants, adhesives and primers that have been stored between 60 °F to 80 °F (16 °C to 27 °C).
 2. Complete test areas to determine if conditions will cause problems such as condensation with the application of the materials.
 3. Stop the operation or change to another warm container when material becomes too thick to properly apply.
- When applying GenFlex SBS SA roof systems, ambient temperatures should be 40 °F (4 °C) and rising. Do not install when the temperatures fall below 40 °F (4 °C) in a 24 hour period. Installation of the GenFlex SBS SA System requires additional precautionary measures:
 1. Ensure that the roof surface is dry. Even trace amounts of moisture may cause poor adhesion and lead to moisture entrapment within the roofing system.
 2. Use of temporary roofs should be considered when roof applications must occur in cold or potentially wet weather to permit continued interior construction or roof-top work.
 3. Refer to the product Technical Information Sheets for individual product temperature restrictions / limitations if applicable.

Roof Substrate Preparation

It is the roofing contractor's responsibility for ensuring that the substrate is acceptable for the GenFlex roof system.

Correct Substrate Defects

- Defects that need to be corrected before work can commence should be brought to the attention of the General Contractor or Owner in writing and addressed by them.
- For re-roofing applications, remove existing roof system components as specified by the project designer. If components are discovered during installation that could be detrimental to the performance of the new roof system, they should be brought to the attention of the project designer for corrective action.
- Recovering an existing roof system is an alternative to removing existing roof components. However, if soundness and integrity of the existing roof system cannot be verified, good roofing practice requires a complete tear-off to the structural deck.
Non-destructive testing, in conjunction with core cuts, must be completed to determine the condition of the existing roof system and decking.

- The building owner or project designer is responsible for assuring that all wet insulation and/or wet substrate materials are removed in a re-roofing application. The best diagnostic technique is taking and evaluating a series of roof cuts. There are three other techniques that are currently available to make this determination by indirect means. These are:
 1. Nuclear moisture detection
 2. Infrared thermography
 3. Electric capacitance
 These techniques provide measurement of factors that can be associated with the presence of moisture, which can then be verified with the use of roof core cuts to confirm the results of the non-destructive testing.
- In the absence of a design professional, the roofer should coordinate with the building owner to assure conditions are satisfactory to commence with the project as designed.

Remove Moisture

Ponded water, snow, frost and/or ice, present in more than trace amounts must be removed from the work surface(s) prior to installing the GenFlex SBS SA Roofing System.

Prepare Surface

Acceptable substrates to which the GenFlex SBS SA Roofing System is installed must be properly prepared prior to roof system installation. The surface must be relatively even, clean, dry, smooth, free of sharp edges, fins, loose or foreign materials, oil, grease, and other materials that may damage the roof system. Rough surfaces that could cause damage to the membrane must be overlaid with insulation or cover boards as determined by the design professional.

Fill Voids

All surface voids of the immediate membrane substrate greater than ¼" (6.35 mm) wide must be filled with insulation. Fill voids between standing seam panels. This material should consist of polyisocyanurate, GenFlex Flashing Foam, or other insulation approved for use by local code authorities.

NOTE: Concrete Additives can have a negative impact on the adhesion of asphaltic membranes and insulation products. The concrete supplier/installer should verify that any additives in the mix will not render the deck unsuitable for roofing application. Amrize does not accept surface-applied curing compounds for warranted systems.

Amrize does not accept for warranty any concrete substrates that have been sealed with chemical sealers or silicon surface treatments.

Storage & Best Practices

When storing and handling GenFlex self-adhered membranes:

- Store rolls upright on pallets in dry ventilated indoor areas.
- Do Not store rolls on their sides.
- Protect rolls from exposure to elements.
- Stage the project as products are needed.
- Do not install when water in any form exists.
- All roof deck application areas must have positive drainage and structurally sound to support all load requirements of the roofing system.

Acceptable Substrates

- Structural Concrete (must be clean, dry, properly cured, and primed with ASTM D41 asphalt primer)
- Plywood (tape off all joints)
- GenFlex SBS FF Torch Base, GenFlex SBS FS Base, MB Base
- SBS FR SA Base, SBS SA Base
- DensDeck® Prime, DensDeck® ProFast, SECUROCK® Gypsum Fiber, GenFlex ISO Flat & Taper / GenFlex GL ISO, GenFlex HD Composite ISO or HD ISO, Coated Glass Facer Polyiso / GenFlex CG ISO (No primer required) Insulation must be a minimum of 1.5" thick.

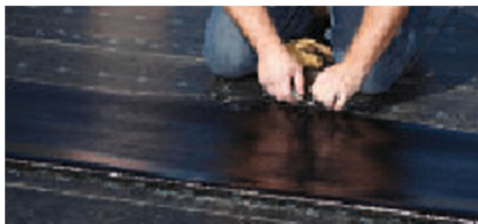
NOTE: Please consult the GenFlex Asphalt Roofing Systems Guide for Applicators and Designers found on the GenFlex website for detailed application information.

INSTALLATION

Installing Self-Adhered (SA) Base Sheets



- Prior to installation, allow the membranes to relax in the sun for a minimum of 15 minutes.
- Ambient temperatures should be 40°F and rising when installing GenFlex SA base sheets.
- Do not install when water in any form exists.
- All roof deck application areas must have positive drainage, continuous support, and be structurally sound to support the dead load requirements of the roofing system.
- Start installation by cutting SA base sheets to suitable lengths.
- Lay the membrane flat and align the membrane at the lowest edge of the roof.
- Once SA base sheet is in place, start by removing the first 18-24" of release film at a 90-degree angle of constant motion.
- Press the membrane into place with firm and even pressure. Roll the edges with a silicone hand roller to ensure complete adhesion.
- Gradually remove the remaining release film applying pressure from the center to the edges as you go.
- Position successive rolls providing a minimum 6" end lap and 3" side lap. Laps can be sealed for additional water tightness with a hot air welder.
- Press the membrane with firm and even pressure. Use hand roller at laps to ensure full adhesion.
- Cut a 45-degree angle at the top corner of sheet, and at all build-up of joints such as T-joints and press next membrane at seam.
- Use hand roller at laps to ensure full adhesion. SA base sheet membrane is installed, be sure to run 75 lb roller over the roof surface to ensure full adhesion.



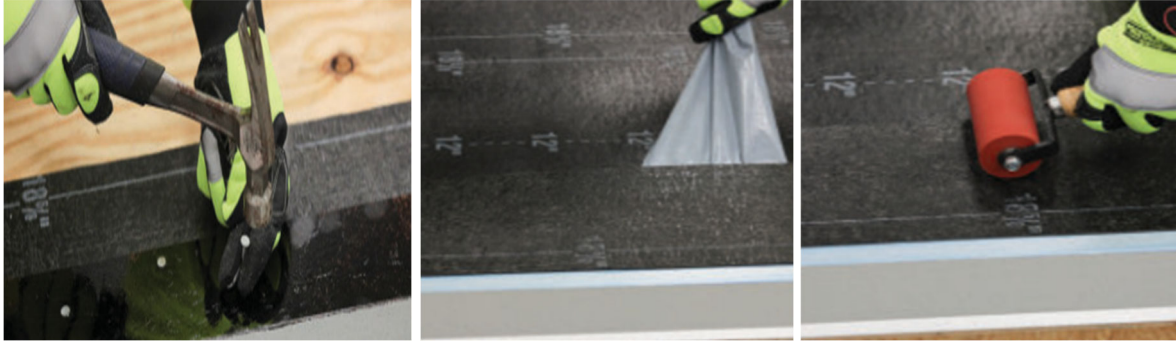
Metal (edge, fascia, coping, gutter, accessories)

Edge metal must be used and installed per GenFlex details and standards. To meet GenFlex's technical specifications, all edge metal, metal copings and edge systems whether field fabricated, shop fabricated, or factory formed should be designed in compliance with the International Building Code (IBC) and be tested/installed in accordance with ANSI/SPRI/FM4435/ES-1 standard and requirements.

- Prepare substrate and roofing membrane as required by product installation details and instructions.
- Install metals and accessories in the longest sections possible in accordance with GenFlex details.

Installing Edge Metal

- When installing metal edging, prime with asphaltic primer that meets ASTM D41.
- The roof flange of the edge metal should be 3" – 4" wide.
- Install the roof flange of the edge metal over the base sheet strip-in at the lowest point on the roof. Nail the edge metal 4" on center in a staggered pattern.
- Install GenFlex SA base sheet onto the edge metal leaving 1/2" of edge metal exposed.
- At flanged metal, maintain minimum 3-inch membrane laps onto the primed metal and ensure they are fully bonded, use a hand roller at laps to confirm full adhesion.



Installing GenFlex SA Cap Sheets

- Apply GenFlex Self-Adhered (SA) membrane only in dry weather and when air and surface temperatures are 40°F (5°C) and rising.
- Apply over clean, dry, dust and debris-free substrates. Prime required substrates prior to application with ASTM D41 primer.
- All roof deck application areas must have positive slope.
- Direct application to wood decks shall have all joints taped off.
- Do not apply directly to existing asphaltic membranes or other unacceptable roof coverings.
- While installing GenFlex SA Cap Sheet:
 1. Start at the low point of the roof.
 2. Cut the SA cap sheet to manageable lengths for the conditions and allow to relax prior to installation.
 3. Start by removing the first 18–24" of release film, at a 90-degree angle of constant motion.
 4. Press the membrane into place with firm and even pressure. Roll the edges with a silicone hand roller to ensure complete adhesion.
 5. Gradually remove the remaining release film applying pressure from the center to the edges as you go.
 6. After each roll is installed, go over with a 75 lb split-faced roller with uniform pressure. Start at the center and work outward to remove trapped air.
 7. Position successive rolls lapping granule to granule end laps at 6" and 3" lap at the granule free side lap. Ensure a watertight seal.
 8. Air heat weld with a dedicated wide tip, lightly embedding granules, or use GenFlex Multi-Purpose Flashing Cement at granule to granule end laps.
 9. Cut a 45-degree angle at all sheet corners and at all seam build-ups, including T-joints, at both SA base and cap sheet overlaps.
 10. After installation of the entire roof surface, roll with a 75 lb minimum weighted split-faced roller. Take care on sloped roofs by securing the roller and applicator with the appropriate safety equipment.
- After 3 full thermal cycles, the roof system adhesive has fully activated and can provide a watertight, membrane system.



Required Practices

1. Store rolls upright in packaging on pallets in dry ventilated indoor areas.
2. Install material when ambient temperatures are 40°F degrees and rising.
3. Only store and remove product from packaging on the same day of installation.
4. Prime all concrete, masonry, metal or metallic surfaces.
5. Prime all vertical surfaces.
6. Apply to clean, dry, dust-free surfaces.
7. Remove split release film at 90 degree angle.
8. Roll all SA 3" side laps to ensure 100% adhesion.
9. Lap granule to granule end laps at 6".
10. Reinforce all inside and outside corners.
11. Heat weld or use SBS mastic at all laps and joints where adhesive compound laps onto granule surfaces.

Precautions

1. Don't store material in direct sunlight.
2. Don't install during inclement weather.
3. Don't apply to dirty, wet or dusty substrate.
4. Don't apply directly existing asphaltic roof coverings.
5. GenFlex SBS FR SA Base Sheets and GenFlex SBS SA Base Sheets must be fully covered by the Cap Sheet on the day of installation or, at the latest, by the end of the next day.

Equipment Supports

Install pipe and equipment support systems where specified. Follow manufactures installation instructions.

Other Considerations

Leak Detection – Wire Grid System

A leak detection grid system refers to a network of sensors or conductors arranged in a grid pattern, installed beneath a surface like a roof, designed to detect the presence of moisture or leaks by creating an electrical circuit when water contacts the grid, allowing for pinpoint location of the leak within the monitored area.

- Wire mesh provided by others for use in an electronic leak detection systems (ELD) is allowed in warranted GenFlex membrane systems provided the mesh is placed beneath an acceptable cover board. The mesh may not come in direct contact with the GenFlex membrane to prevent compromising system uplift resistance or physical damage to the membrane.
- GenFlex assumes no liability for ELD products or services provided by others. Only GenFlex branded and GenFlex provided products are included within warranty coverage. Validation of uplift performance and fire ratings may not be possible when ELD systems are used.
- Low Voltage scanning platforms can be utilized in the following systems: TPO, and modified bitumen.

NOTE: Full compatibility shall be validated by the user with the ELD system provider.

Leak Detection – Conductive Primer

Conductive primer enables electronic leak detection (ELD) of conventional roofing assemblies by creating the required conductivity directly below the membrane.

- A conductive primer provided by others for use in an ELD is allowed in a warranted adhered single-ply GenFlex system. Warranted wind speeds for projects using a conductive primer are limited to 72 MPH unless performance can be validated via a tested assembly.
- GenFlex assumes no liability for ELD products or services provided by others. Only GenFlex branded and GenFlex provided products are included within warranty coverage.
- Conductive primer can be utilized in the following systems: TPO, EPDM and modified bitumen.

NOTE: Full compatibility shall be validated by the user with the ELD system provider.

Please contact GenFlex Technical Services at 800-443-4272 for further information.

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