

Senerflex® Adhered Mat Design

Class PB EIFS incorporating a rainscreen technology based upon the use of an air/barrier and drainage plane

SPECIFICATION
1025169

INTRODUCTION

This Specification has been assembled to enable the design professional to select or delete sections to suit the project requirements and is intended to be used in conjunction with Senergy® typical details, bulletins, etc.

Air Seals at any joints/gaps between adjoining components (penetrations, etc.) are of primary importance to maintain continuity of the air barrier system and must be considered by the design professional in the overall wall assembly design

This specification refers to applications of the Senerflex® Adhered Mat Design to the following substrates: PermaBase® Cement Board and other cement-boards conforming with ASTM C1325 (Type A-exterior), poured concrete/unit masonry, Fiberock® Aqua-Tough™ Sheathing, e²XP™ by National Gypsum, GlasRoc® and GlasRoc® Type X by Certainteed, DensGlass® Gold sheathing (ASTM C1177), gypsum sheathing (ASTM C1396), Exposure I or exterior plywood (Grade C-D or better), or Exposure I OSB.

TECHNICAL INFORMATION

Consult the Technical Services Department for specific recommendations concerning all other applications. Consult the Senergy website, www.senergy.basf.com, for additional information about products and systems and for updated literature.

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Refer to all drawings and other sections of this specification to determine the type and extent of work therein affecting the work of this section, whether or not such work is specifically mentioned herein.
- B. Senerflex Adhered Mat Design: Composite wall Exterior Insulation and Finish System consisting of Secondary air/weather barrier, PermaLath 1000® expanded galvanized metal lath, Adhesive, rigid insulation, Base Coat, Reinforcing Mesh, and Finish Coat.
- C. Senergy products are listed in this specification to establish a standard of quality. Any substitutions to this specification shall be submitted to and receive approval from the Architect at least 10 days before bidding. Proof of equality shall be borne by the submitter.
- D. The system type shall be Senergy Senerflex Adhered Mat Design Wall System as manufactured by BASF Construction Chemicals, LLC, hereinafter referred to as BASF Wall Systems, Jacksonville, Florida.

1.02 RELATED SECTIONS

- A. Section 03300 Concrete Substrate
- B. Section 04200 Masonry Substrate
- C. Section 05400 Cold-formed metal framing: Light gauge load-bearing metal framing
- D. Section 06001 Plywood Substrate
- E. Section 06110 Wood Framing
- F. Section 07195 Air Barriers
- G. Section 07620 Sheet Metal Flashing and Trim: Perimeter Flashings
- H. Section 07650 Flexible Flashing
- I. Section 07900 Sealants
- J. Section 08000 Doors and windows
- K. Section 09100 Metal Support Systems
- L. Section 09110 Non-load-bearing wall framing: Non-load-bearing metal framing systems
- M. Section 09250 Exterior Gypsum substrates
- N. Section 09206 Metal Lath

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1.03 DEFINITIONS

- A. Exterior Insulation and Finish System: Exterior assembly comprised of rigid insulation, Adhesive, Base Coat, Reinforcing Mesh, and Finish Coat.
- B. Class PB Systems: A class of EIFS where the Base Coat varies in thickness depending upon the number of layers or thickness of Reinforcing Mesh. The reinforcing material is glass fiber mesh, which is embedded into the Base Coat at the time of installation. The Base Coat shall be applied so as to achieve Reinforcing Mesh embedment with no Reinforcing Mesh color visible, nominal 1.6 mm (1/16"). Protective Finish Coats, of various thicknesses, in a variety of textures and colors, are applied over the Base Coat.
- C. Rainscreen: A wall cladding design with an exterior surface for primary weather protection and aesthetics, that incorporates an inner secondary air/weather barrier to accommodate incidental moisture and direct it to the exterior.

1.04 SUBMITTALS

- A. Submit under provisions of Section [01300] [01340].
- B. Product Data: Provide data on Senerflex® Adhered Mat Design materials, product characteristics, performance criteria, limitations and durability.
- C. Shop drawings: Indicate wall joint pattern and joint details, thickness, and installation details.
- D. Samples: Submit [two] [x] [millimeter] [inch] size samples of Senerflex Adhered Mat Design illustrating Finish Coat [custom] color and texture range.
- E. Certificate: System manufacturer's approval of applicator.
- F. System manufacturer's installation instructions: Indicate preparation required, installation techniques, jointing requirements and finishing techniques.

1.05 QUALITY ASSURANCE

- A. Manufacturer: More than 10 years in the EIFS industry, with more than 1000 completed EIFS projects.
- B. Applicator: Approved by Senergy® in performing work of this section.
- C. Regulatory Requirements: Conform to applicable code requirements for finish system.
- D. Field Samples
 - 1. Provide under provisions of Section [01400] [].
 - 2. Construct one field sample panel for each color and texture, [x] [meters] [feet] in size of system materials illustrating method of attachment, surface Finish, color and texture.
 - 3. Prepare each sample panel using the same tools and techniques to be used for the actual application.
 - 4. Locate sample panel where directed.
 - 5. Accepted sample panel [may] [may not] remain as part of the work.
 - 6. Field samples shall be comprised of all wall assembly components including substrate, air/weather barrier, insulation board, Base Coat, Reinforcing Mesh, primer (optional), Finish Coat, and typical sealant/flashing conditions.
- E. Design and Detailing a Senerflex Wall System:
 - 1. General
 - a. The system shall be installed in strict accordance with current recommended published details and product specifications from the system's manufacturer.
 - b. Sealants and backer rod as required at dissimilar materials and expansion joints within the Senerflex Wall System shall provide a complete watertight system.
 - c. The use of dark colors must be considered in relation to wall surface temperature as a function of local climate conditions.
 - d. Minimum slope for all projections shall be 1:2 with a maximum length of 30.5 cm (12") [e.g. 15 cm in 30.5cm (6" in 12")], unless other manufacturer-approved detailing is shown on the construction documents.
 - 2. Substrate Systems
 - a. Deflection of the substrate systems shall not exceed L/240.
 - b. Acceptable substrates are PermaBase™ Cement-Board and other cement-boards conforming with ASTM C1325 (Type A-exterior) , poured concrete/unit masonry, Fiberock® Aqua-Tough™ Sheathing, DensGlass Gold® sheathing (ASTM C1177), gypsum sheathing (ASTM C79/C1396), Exposure I or exterior plywood (Grade C-D or better), or Exposure I OSB.
 - c. Painted and otherwise coated surfaces of brick, unit masonry, stucco and concrete shall be inspected and prepared as approved by BASF Wall Systems before application.
 - d. Other substrates shall be approved by the system's manufacturer in writing prior to the application.
 - e. The applicator shall verify that the proposed substrate is acceptable prior to the Senerflex Wall System installation.
 - f. The substrate systems shall be engineered with regard to structural performance by others.
 - 3. System Joints
 - a. Expansion joints in the system are required at building expansion joints, at prefabricated panel joints, floor-lines of wood frame construction, where substrates change and where structural movement is anticipated. It

- is the sole responsibility of the project design team, including the architect, engineer, etc., to ultimately determine specific expansion joint placement, width and design.
- b. Reference construction documents for specific locations.
4. Coordination with Other Trades
Architect shall evaluate adjacent materials such as windows, doors, etc. for conformance to manufacturer's details. Adjacent trades shall provide scaled shop drawings for review.

1.06 DESIGN RESPONSIBILITY

- A. It is the responsibility of both the specifier and the purchaser to determine if a product is suitable for its intended use. The designer selected by the purchaser shall be responsible for all decisions pertaining to design, detail, structural capability, attachment details, shop drawings and the like. BASF Wall Systems has prepared guidelines in the form of specifications, typical application details, and product bulletins to facilitate the design process only. BASF Wall Systems is not liable for any errors or omissions in design, detail, structural capability, attachment details, shop drawings or the like, whether based upon the information provided by BASF Wall Systems or otherwise, or for any changes which the purchasers, specifiers, designers or their appointed representatives may make to BASF Wall Systems published comments.

1.07 DELIVERY, STORAGE AND HANDLING

- A. Deliver, store and handle products under provisions of Section [01600] [01610][].
- B. Deliver Senerflex Adhered Mat Design materials in original unopened packages with manufacturer's labels intact.
- C. Protect Senerflex Adhered Mat Design materials during transportation and installation to avoid physical damage.
- D. Store Senerflex Adhered Mat Design materials in cool, dry place protected from freezing. Store at no less than 4°C/40°F (10°C/50°F for AURORA STONE, AURORA TC-100, ALUMINA™ and BOREALIS Finish).
- E. Store insulation boards flat and protected from direct sunlight and extreme heat.
- F. Store Senerflex Adhered Mat Design Reinforcing Mesh, SHEATHING FABRIC and SENERFLASH™/SENERWRAP flexible flashing in cool, dry place protected from exposure to moisture.

1.08 PROJECT/SITE CONDITIONS

- A. Do not apply Senerflex Adhered Mat Design in ambient temperatures below 4°C/40°F (10°C/50°F for AURORA STONE, AURORA TC-100, ALUMINA™ and BOREALIS Finish). Provide properly vented, supplementary heat during installation and drying period when temperatures less than 4°C/40°F (10°C/50°F for AURORA STONE, AURORA TC-100, ALUMINA™ and BOREALIS Finish) prevail.
- B. Do not apply Senerflex Adhered Mat Design materials to frozen surfaces.
- C. Maintain ambient temperature at or above 4°C/40°F (10°C/50°F for AURORA STONE, AURORA TC-100, ALUMINA™ and BOREALIS Finish) during and at least 24 hours after Senerflex Adhered Mat Design installation and until dry.

1.09 SEQUENCING AND SCHEDULING

- A. Coordinate and schedule installation of Senerflex Adhered Mat Design with related work of other sections
- B. Coordinate and schedule installation of trim, flashing, and joint sealers to prevent water infiltration behind the system.
- C. Coordinate and schedule installation of windows, doors, A/C units, air seals etc.

1.10 WARRANTY

- A. Provide Senergy® ten-year limited materials warranty and ten-year materials and labor moisture drainage warranty for Senerflex Adhered Mat Design installations under provisions of Section [01700] [01740] [].
- B. Comply with Senergy® project review requirements and notification procedures to assure qualification for warranty

PART 2 PRODUCTS

2.01 MANUFACTURERS

Senerflex® Adhered Mat Design (Class PB System) manufactured by BASF Wall Systems.

2.02 MATERIALS

- A. Air/Weather Barrier
 1. a. FLASHING PRIMER: water-based primer for use prior to application of SENERFLASH™ on all acceptable surfaces.
 - b. SENERFLASH™: 30-mil thick, self-sealing, self-healing composite membrane of polyester fabric and rubberized asphalt. Compatible with SENERSHIELD™ or SENERSHIELD-R Air/Weather Barrier.
- OR -
 1. Senergy® SELF-ADHERING MESH TAPE 4: 100 mm (4") balanced, open weave glass fiber reinforcing mesh with adhesive; twisted multi-end strands treated for compatibility with system components for use with SENERSHIELD

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- OR -
FLEXGUARD 4 Mesh: 100 mm (4") balanced, open weave glass fiber Reinforcing Mesh; twisted multi-end strands treated for compatibility with system components for use with SENERSHIELD.
 - OR -
4" SHEATHING FABRIC: 100mm (4") spunbonded non-woven reinforced polyester web for use with SENERSHIELD-R.
 - 2. SENERSHIELD™: 100% acrylic-based, fiber-reinforced Air/Weather Barrier that is field mixed with Type I or Type II Portland cement.
 - OR -
SENERSHIELD-R: ready-mixed, flexible Air/Weather Barrier.
 - OR -
Other code approved secondary air/weather barrier.]
- Note: Refer to current SENERSHIELD or SENERSHIELD-R product bulletin and Senergy® Moisture Protection Guidelines for additional information and complete installation instructions.**
- B. PermaLath 1000® open weave, three-dimensional, self-furred, nominal 6 mm (1/4") thick glass fiber reinforcing lath or expanded galvanized metal lath, 3.4-pounds-per-squareyard (1.3 kg/m²), diamond-patterned, complying with ASTM C 847.
 - C. Adhesives/Base Coats
 - [1. [STANDARD] [ALPHA] Base Coat: 100% acrylic base coat, field-mixed with Portland cement; manufactured by BASF Wall Systems]
 - [2. ALPHA DRY Base Coat: Dry-mix base coat containing Portland cement; manufactured by BASF Wall Systems]
 - [3. XTRA-STOP Base Coat: 100% acrylic-based, water-resistant base coat, field-mixed with Portland cement; manufactured by BASF Wall Systems]
 - [4. ALPHA GENIE Base Coat: Fiber-reinforced, 100% acrylic base coat, field-mixed with Portland cement; manufactured by BASF Wall Systems]
 - [D. Portland cement: Conform to ASTM C150, Type I, II, or I/II, grey or white; fresh and free of lumps.]
 - E. Water: Clean and potable without foreign matter.
 - F. Insulation Board: Expanded polystyrene; ASTM C578, Type I; Flame spread less than 25, smoke developed less than 450 per ASTM E84, UL 723; minimum density 15.22 kg/m³ (0.95 lb/ft³; K=6.09 per mm (0.24 per inch); 19 mm (3/4") thickness minimum as indicated on drawings; meeting the following:
 - a. Air-dried (aged) six weeks, or equivalent, prior to installation.
 - b. Edges: square within 0.8 mm per meter (1/32" per foot).
 - c. Thickness: tolerance of plus or minus 1.6 mm (1/16").
 - d. Size: 0.6 m x 1.22 m (2' x 4').
 - e. Length and width: tolerance of plus or minus 1.6 mm (1/16").
 - G. Senergy Reinforcing Mesh: MIL-Y-1140G; Balanced, open weave glass fiber reinforcing mesh; twisted multi-end strands treated for compatibility with Senerflex Adhered Mat Design components.
 - [1. FLEXGUARD 4: Standard weight.]
 - [2. INTERMEDIATE 6: Medium weight.]
 - [3. INTERMEDIATE 12: Intermediate weight.]
 - [4. STRONG 15: Heavy weight, used only in combination with FLEXGUARD 4 or INTERMEDIATE 6.]
 - [5. HI-IMPACT 20: Heavy weight, used only in combination with FLEXGUARD 4 or INTERMEDIATE 6.]
 - [6. FLEXGUARD [&]: Combination]
 - [7. CORNER MESH: Intermediate weight, pre-marked for easy bending, for reinforcing at exterior corners.]
 - [H. [ASAP] [siliconized ASAP PLUS]: 100% acrylic-based coating; color []; as manufactured by BASF Wall Systems]
 - [I. [COLOR COAT] [siliconized COLOR COAT PLUS]: 100% acrylic-based coating; color []; as manufactured by BASF Wall Systems]
 - [J. TINTED PRIMER: 100% acrylic-based primer; color [] to closely match the selected Senergy® Finish Coat color; manufactured by BASF Wall Systems]
 - K. Senergy Finish Coat: [SENERFLEX 100% acrylic polymer based finish; air cured, compatible with Base Coat; Finish color factory-mixed; color [] as selected; Finish texture [CLASSIC] [FINE] [TEXTURE] [COARSE] [SAHARA] [BELGIAN LACE] [ENCAUSTO VERONA] [METALLIC] [BOREALIS] [AURORA TC-100] [AURORA STONE] [ALUMINA™] as scheduled; as manufactured by BASF Wall Systems]
 - OR -
[SILCOAT®] Finish: Siliconized acrylic emulsion finish coat; air cured, Finish color factory-mixed; color [] selected; Finish texture [CLASSIC] [FINE] [TEXTURE] [SAHARA] as scheduled; as manufactured by BASF Wall Systems]
 - [L. BASF Wall System's AnticoGlaze™: 100% acrylic stain, manufactured by BASF Wall Systems]

Note: Select Finish Coat color with a light reflectance value (LRV) of 20% or higher. The use of dark colors (LRV less than 20%) is not recommended with EIF Systems that incorporate expanded polystyrene (EPS). EPS has a sustained service temperature limitation of approximately 71°C (160°F).

2.03 ACCESSORIES

Starter Track: Rigid polyvinyl chloride (PVC) track, UV resistant for exterior use, with a drip edge to allow moisture to shed down the surface, as furnished by Plastic Components, Inc. or equal. Accessories shall conform to ASTM D1784 and C1063.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify project site conditions under provisions of Section [01039] [].
- B. Walls
 1. Substrates
 - a. Trowel applied air/weather barrier acceptable substrates: PermaBase brand cement board (or other ASTM C1325 Type A Exterior approved cement boards), poured concrete/unit masonry, Fiberock Aqua-Tough Sheathing, Dens-Glass Gold sheathing (ASTM C1177), gypsum sheathing (ASTM C79/C1396).
 - b. Roller applied air/weather barrier acceptable substrates: PermaBase brand cement board (or other ASTM C1325 Type A Exterior approved cement boards), Fiberock Aqua-Tough Sheathing, Dens-Glass Gold sheathing (ASTM C1177), gypsum sheathing (ASTM C79/C1396), Exposure 1 or exterior plywood sheathing (Grade C-D or better), Exposure 1 OSB. Consult the BASF Wall Systems Technical Services Department for all other applications.
 - c. Wall sheathings must be securely fastened per applicable building code requirements.
 - d. Maximum deflection not to exceed L/240 of span under positive or negative design loads unless otherwise approved in writing by BASF Wall Systems before installation.
 - e. Examine surfaces to receive Senerflex Adhered Mat Design and verify that substrate and adjacent materials are dry, clean, sound, and free of releasing agents, paint, or other residue or coatings. Verify substrate is flat, free of fins or planar irregularities greater than 6.4 mm in 3 m (1/4" in 10').
 2. Flashings
 - a. Openings must be flashed with a minimum 230 mm (9") strip of Secondary Moisture Barrier prior to window/door, HVAC, etc. installation. Refer to SENERFLASH™ product bulletin and Senergy® Moisture Protection Guidelines.
 - b. Windows and openings shall be flashed according to design and Building Code Requirements.
 - c. Individual windows that are ganged to make multiple units require continuous head flashing and/or the joints between the units must be fully sealed.
 3. Utilities

The system must be properly terminated (back-wrapped a min. of 2", sealed, flashed) at all penetrations, lighting fixtures, electrical outlets, hose bibs, dryer vents, etc.
 4. Air/Weather Barrier

Verify that the [FLASHING PRIMER/SENERFLASH 4] [Senergy SELF-ADHERING MESH TAPE/SENERSHIELD™] [FLEXGUARD 4 Reinforcing Mesh]/SENERSHIELD™ is installed over the substrate in accordance with the SENERSHIELD product bulletin and Senergy® Moisture Protection Guidelines.

-OR -

Verify that the [4"SHEATHING FABRIC/SENERSHIELD-R] is installed over the substrate in accordance with the SENERSHIELD-R product bulletin and Senergy® Moisture Protection Guidelines.
 5. Roof

Verify that all roof flashings have been installed in accordance with the guidelines set by the Asphalt Roofing Manufacturers Association (ARMA).
 6. Kick-out flashing must be installed leak-proof and angled (min 100°) to allow for proper drainage and water diversion.
 7. Air Seals

Install between the primary air/weather barrier and other wall components (penetrations, etc.) in order to maintain continuity of the air barrier system.
- C. Unsatisfactory conditions shall be reported to the general contractor and/or builder and/or architect and/or owner. Do not proceed until all unsatisfactory conditions have been corrected.

3.02 PREPARATION

- A. Protect all surrounding areas and surfaces from damage and staining during application of Senerflex® Adhered Mat Design.
- B. Protect finished work at end of each day to prevent water penetration.
- C. Substrate preparation: Prepare substrates in accordance with Senergy instructions.

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3.03 MIXING

General: No additives are permitted unless specified in product mixing instructions. Close containers when not in use. Prepare in a container that is clean and free of foreign substances. Do not use a container which has contained or been cleaned with a petroleum-based product. Clean tools with soap and water immediately after use.

A. Air/Weather Barrier

1. SENERSHIELD™
 - a. Mix SENERSHIELD with a clean, rust-free paddle and drill until thoroughly blended before adding Portland cement.
 - b. Mix one part (by weight) Portland cement with one part SENERSHIELD. Add Portland cement in small increments, mixing until thoroughly blended after each additional increment.
 - c. A small amount of clean, potable water per mixed pail (30 lbs of SENERSHIELD) may be added to adjust workability. Do not overwater.
2. SENERSHIELD-R
 - a. Mix SENERSHIELD-R with a clean, rust-free paddle and drill until thoroughly blended. Do not add water.

B. Senergy® Adhesives/Base Coats

1. NCII BASE COAT:
 - a. Mix NCII BASE COAT with a clean, rust-free paddle and drill until thoroughly blended.
 - b. A small amount of clean, potable water may be added to adjust workability.
 2. STANDARD, ALPHA, XTRA-STOP, and ALPHA GENIE Base Coat:
 - a. Mix Base Coat with a clean, rust-free paddle and drill until thoroughly blended, before adding Portland cement.
 - b. Mix one part (by weight) Portland cement with one part Base Coat. Add Portland cement in small increments, mixing until thoroughly blended after each additional increment.
 - c. Clean, potable water may be added to adjust workability.
 3. ALPHA DRY Base Coat:
 - a. Mix and prepare each bag in a 19-liter (5-gallon) pail.
 - b. Fill the container with approximately 5.6-liters (1.5-gallons) of clean, potable water.
 - c. Add ALPHA DRY Base Coat in small increments, mixing after each additional increment.
 - d. Mix ALPHA DRY Base Coat and water with a clean, rust-free paddle and drill until thoroughly blended.
 - e. Additional ALPHA DRY Base Coat or water may be added to adjust workability.
- #### C. Senergy ASAP, ASAP PLUS, TINTED PRIMER, COLOR COAT, COLOR COAT PLUS, and Finish Coats
1. Mix the factory-prepared material with a clean, rust-free paddle and drill until thoroughly blended.
 2. A small amount of clean, potable water may be added to adjust workability.
 3. Additives are not permitted.
 4. Close container when not in use.
 5. Clean tools with soap and water immediately after use.

3.04 APPLICATION

General: Apply Senerflex® Adhered Mat Design materials in accordance with Senerflex Adhered Mat Design Specifications.

A. Accessories

1. Attach Starter Track level and per manufacturer's instructions.
2. Air/Weather Barrier
 - a. All sheathing joints and windows/openings must be protected and the air/weather barrier applied in accordance with Senergy® Moisture Protection Guidelines.
 - b. Substrate shall be of a type approved by BASF Wall Systems.
 - c. Substrate shall be dry, clean, sound, and free of releasing agents, paint, or other residue or coatings. Verify substrate is flat, free of fins or planar irregularities greater than 6.4 mm in 3 m (1/4" in 10').
 - d. Unsatisfactory conditions shall be reported to the General Contractor and corrected before application of the air/weather barrier.
 - e. Apply the [FLASHING PRIMER/SENERFLASH 4] [SELF-ADHERING MESH TAPE/SENERSHIELD™] [FLEXGUARD 4 Reinforcing Mesh/SENERSHIELD] in accordance with SENERSHIELD product bulletin.
-OR -
Apply the [4" SHEATHING FABRIC/SENERSHIELD-R] in accordance with the SENERSHIELD-R product bulletin.
 - f. Installed materials should be checked before continuing system application.
 - g. Ensure [FLEXGUARD 4 Reinforcing Mesh/SENERSHIELD] [FLASHING PRIMER/SENERFLASH/SENERSHIELD] [SELF-ADHERING MESH TAPE/SENERSHIELD™] [4" SHEATHING FABRIC/SENERSHIELD-R] overlaps the top flange of the starter track.

B. Lath

1. PermaLath 1000 application must be in accordance with BASF Wall Systems product bulletin 1032008.

-OR -

Expanded galvanized metal lath application must be in accordance the requirements of Chapter 25 of the applicable code (Chapter 7 of the IRC).

- C. Insulation Board
1. Vertical surfaces: begin at base from firm, permanent, or temporary support.
 2. Apply horizontally in a running bond pattern.
 3. Pre-cut insulation board to fit openings and projections. Insulation board must be a single piece around corners of openings. Stagger vertical joints and corners. Stagger insulation and sheathing board joints.
 4. Apply mixed [ALPHA] [STANDARD] [ALPHA DRY] [XTRA STOP] [ALPHA GENIE] Base Coat to entire surface of insulation board using a stainless steel trowel with 13 mm x 13 mm (1/2"x 1/2") notches spaced 50 mm (2") apart.
 5. Immediately set board into place and apply pressure over entire surface of board to ensure positive uniform contact and high initial grab. Do not slide board into place. Do not allow Base Coat to dry prior to installing.
 6. Abut all joints tightly and ensure overall flush level surface.
 7. Check adhesion periodically by removing a board prior to set. Properly installed insulation board will be difficult to remove and Senerflex Adhesive/Base Coat will be adhered to both the expanded galvanized metal lath and the insulation board.
 8. Fill 1/16" and larger gaps between insulation boards with slivers of insulation board.
 9. Rasp flush any irregularities of the insulation board greater than 1.6 mm (1/16").
 10. Install expansion joints and aesthetic grooves as indicated on drawings. Do not align aesthetic grooves with insulation board joints.
- D. Senergy® Base Coat/Reinforcing Mesh: Base Coat shall be applied so as to achieve Reinforcing Mesh embedment with no Reinforcing Mesh color visible.
1. Senergy CORNER MESH
 - a. Install CORNER MESH at exterior corners.
 - b. Apply CORNER MESH prior to application of Reinforcing Mesh.
 - c. Cut CORNER MESH to workable lengths.
 - d. Apply mixed [ALPHA] [STANDARD] [ALPHA DRY] [XTRA-STOP] [ALPHA GENIE] [NC-II] Base Coat to insulation board at outside corners using a stainless steel trowel.
 - e. Immediately place CORNER MESH against the wet Base Coat and embed the CORNER MESH into the Base Coat by troweling from the corner; butt edges and avoid wrinkles.
 - f. After Base Coat is dry and hard, apply a layer of FLEXGUARD 4, INTERMEDIATE 6 or 12 Reinforcing Mesh over the entire surface of the CORNER MESH in accordance with 3.04 D.2.]
 2. [FLEXGUARD 4] [INTERMEDIATE 6] [INTERMEDIATE 12] Reinforcing Mesh.
 - a. Install [FLEXGUARD 4] [INTERMEDIATE 6] [INTERMEDIATE 12] at [].
 - b. Apply mixed [STANDARD] [ALPHA] [ALPHA DRY] [XTRA-STOP] [ALPHA GENIE] [NC-II] Base Coat to entire surface of insulation board with a stainless steel trowel to embed the Reinforcing Mesh.
 - c. Immediately place [FLEXGUARD 4] [INTERMEDIATE 6] [INTERMEDIATE 12] Reinforcing Mesh against wet Base Coat and embed the Reinforcing Mesh into the Base Coat by troweling from the center to the edges.
 - d. Lap Reinforcing Mesh 64 mm (2 1/2") minimum at edges.
 - e. Ensure Reinforcing Mesh is continuous at corners, void of wrinkles and embedded in Base Coat so that no Reinforcing Mesh color is visible.
 - f. If required, apply a second layer of Base Coat to achieve total nominal Base Coat/Reinforcing Mesh thickness of 1.6 mm (1/16").
 - g. Allow Base Coat with embedded Reinforcing Mesh to dry hard (normally 8 to 10 hours).
 3. [STRONG 15 & FLEXGUARD 4] [STRONG 15 & INTERMEDIATE 6] [HI-IMPACT 20 & FLEXGUARD 4] [HI-IMPACT 20 & INTERMEDIATE 6] Reinforcing Mesh
 - a. Install [STRONG 15 & FLEXGUARD 4] [STRONG 15 & INTERMEDIATE 6] [HI-IMPACT 20 & FLEXGUARD 4] [HI-IMPACT 20 & INTERMEDIATE 6] Reinforcing Mesh at [].
 - b. Apply mixed [STANDARD] [ALPHA] [ALPHA DRY] [XTRA-STOP] [ALPHA GENIE] [NC-II] Base Coat to entire surface of insulation board with a stainless steel trowel to embed the Reinforcing Mesh.
 - c. Immediately place [STRONG 15] [HI-IMPACT 20] Reinforcing Mesh against wet Base Coat and embed the Reinforcing Mesh into the Base Coat by troweling from the center to the edges.
 - d. Butt [STRONG 15] [HI-IMPACT 20] Reinforcing Mesh at all adjoining edges; do not use to backwrap or bend around corners.
 - e. Butt [STRONG 15] [HI-IMPACT 20] Reinforcing Mesh at adjoining edges of CORNER MESH.
 - f. Ensure Reinforcing Mesh is free of wrinkles and embedded in Base Coat so that no Reinforcing Mesh color is visible.
 - g. After Base Coat with embedded Reinforcing Mesh is dry and hard (normally 8 to 10 hours), apply a layer of [FLEXGUARD 4] [INTERMEDIATE 6] Reinforcing Mesh over the entire surface in accordance with 3.04 C.2 to achieve total nominal Base Coat/ Reinforcing Mesh thickness of 2.4 mm (3/32").]
- [D. Senergy® [ASAP] [ASAP PLUS] [COLOR COAT] [COLOR COAT PLUS]
1. Apply material to the Base Coat/Reinforcing Mesh in sealant joints with a high-quality, latex-type paintbrush.
 2. Work material continuously until a uniform appearance is obtained.

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3. Allow to dry thoroughly (approximately 24 hours) prior to application of sealant primer and sealant.]
- [E. Senergy TINTED PRIMER
 1. Apply TINTED PRIMER to the Base Coat/Reinforcing Mesh with a sprayer, 10 mm (3/8") nap roller, or good-quality latex paint brush at a rate of approximately 3.6–6.1 m² per liter (150–250 ft² per gallon).
 2. TINTED PRIMER shall be dry to the touch before proceeding to the Senergy Finish Coat application.]
- F. Senergy Finish Coat
 - [1. SENERFLEX® FINISH: [CLASSIC] [FINE] [TEXTURE] [COARSE] [SAHARA] [BELGIAN LACE] [ENCAUSTO VERONA] [METALLIC].
 - OR -
 - SILCOAT® Finish: [CLASSIC] [FINE] [TEXTURE] [SAHARA]
 - a. Apply Finish directly to the Base Coat with a clean, stainless steel trowel.

NOTE: 1. Certain colors may require the use of Senergy TINTED PRIMER over the Base Coat prior to application of Finish.]

 2. **Select Finish Coat color with a light reflective value (LRV) of 20% or higher. The use of dark colors (LRV less than 20%) is not recommended with EIFS that incorporate expanded polystyrene insulation (EPS). EPS has a sustained service temperature limitation of approximately 160°F (71°C).**
 - b. Apply and level Finish during the same operation to minimum obtainable thickness consistent with uniform coverage.
 - c. Maintain a wet edge on Finish by applying and texturing continually over the wall surface.
 - d. Work Finish to corners, joints or other natural breaks and do not allow material to set up within an uninterrupted wall area.
 - e. Float Finish to achieve final texture.]
- [2. AURORA TC-100] [BOREALIS] [ALUMINA™] Finish Coat
 - a. Apply TINTED PRIMER to substrate in accordance with current Senergy TINTED PRIMER product bulletin. TINTED PRIMER shall be of corresponding color for selected [AURORA TC-100] [BOREALIS] [ALUMINA™] Finish color. Allow TINTED PRIMER to dry to the touch before proceeding to [AURORA TC-100] [BOREALIS] [ALUMINA™] Finish application.
 - b. Apply a tight coat of Finish with a clean, stainless steel trowel.
 - c. Maintain a wet edge on Finish by applying and leveling continually over the wall surface.
 - d. Work Finish to corners, joints or other natural breaks and do not allow material to set up within an uninterrupted wall area. Allow first coat to set until surface is completely dry prior to applying a second coat of Finish.
 - e. For a smooth appearance, use a stainless steel trowel and apply the second coat of Finish. Achieve final texture using circular motions.
 - f. For a textured appearance, apply the second coat of Finish using a spray gun and hopper.
 - g. Double-back to achieve final texture.
 - h. Total thickness of Finish shall be approximately 1.6 mm (1/16").
- [3. AURORA STONE Finish
 - a. Apply TINTED PRIMER to substrate in accordance with current Senergy® TINTED PRIMER product bulletin. TINTED PRIMER shall be of corresponding color for selected AURORA STONE Finish color. Allow TINTED PRIMER to dry to the touch before proceeding to AURORA STONE Finish application.
 - b. Apply a coat of AURORA STONE Finish using a spray gun and hopper, maintaining a wet edge. Work to corners, joints or other natural breaks and do not allow material to set up within an uninterrupted wall area.
 - c. Allow first coat of AURORA STONE Finish to set until surface is completely dry prior to applying a second coat of AURORA STONE Finish.
 - d. Apply a second coat of AURORA STONE Finish using a spray gun and hopper; double back to achieve final texture.
 - e. Thickness of AURORA STONE Finish may vary between 1.6 mm (1/16") and 3.2 mm (1/8"), depending upon texture.

Note: Spraying of AURORA STONE Finish should be by the same manner, direction and mechanic on a particular elevation or project whenever possible, to maintain a uniform appearance. Maintain consistent air pressure to minimize texture variations. Stator or rotor design pumps are not recommended.]
- [G. BASF Wall System's AnticoGlaze™:
 1. Apply BASF Wall System's AnticoGlaze™ in accordance with recommendations contained in current product literature.]

3.05 CLEANING

- A. Clean work under provisions of Section [01700] [].
- B. Clean adjacent surfaces and remove excess material, droppings, and debris.

3.06 PROTECTION

Protect finished work under provisions of Section [01500] [].

SCHEDULES

Senergy Finish Coat

FINISH	LOCATION
A. CLASSIC SILCOAT® CLASSIC	_____
B. BELGIAN LACE SILCOAT BELGIAN LACE	_____
C. FINE SILCOAT FINE	_____
D. SAHARA SILCOAT SAHARA	_____
E. TEXTURE SILCOAT TEXTURE	_____
F. COARSE	_____
G. BOREALIS	_____
H. AURORA TC-100	_____
I. AURORA STONE	_____
J. METALLIC	_____
K. ENCAUSTO VERONA	_____
L. ALUMINA™	_____
M. ANTICOGLAZE™	_____

END OF SECTION

Note

BASF Wall Systems is an operating unit of BASF Construction Chemicals, LLC. (herein after referred to as "BASF Wall Systems")

Residential Policy

On one and two-family residential framed construction, BASF Wall Systems requires that the wall system selected be one that includes provisions for water drainage. The choices include Senturion® line of water drainage EIFS, commercial Senerflex® Channeled Adhesive or Channeled Insulation Design, Senergy Stucco Wall System, and Senergy Cement-Board Stucco™ Systems. There are no exceptions to this policy. Under no circumstances will BASF Wall Systems warrant the use of any other system on this type of construction without expressed written authorization from BASF Wall Systems [Residential construction using EIFS on masonry (CMU) or poured concrete does not require the additional water drainage provisions described above. Senergy Exterior Surfacing Systems for insulating concrete forms are also acceptable.] See the Senergy Residential Policy Bulletin for a more detailed discussion of this topic. Consult BASF Wall Systems Technical Services Department for specific recommendations concerning all other applications. Consult the Senergy website, www.senergy.basf.com for additional information about products and systems and for updated literature.

Disclaimer

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