

# Stucco Resurfacing System

SPECIFICATION  
**1032533**

## INTRODUCTION

This specification refers to application of the Senergy Stucco Resurfacing System over stucco or masonry walls in both residential and commercial buildings.

## TECHNICAL INFORMATION

Consult our Technical Services Department for specific recommendations concerning all other applications. Consult the Senergy website, [www.senergy.basf.com](http://www.senergy.basf.com), for additional information about products and systems and for updated literature.

## PART 1 - GENERAL

### 1.01 SECTION INCLUDES

- A. Senergy Stucco Resurfacing System: A finish system typically consisting of Base Coat, Reinforcing Mesh and Finish Coat.
- B. Schedule of Senergy Finish Coat.

### 1.02 RELATED SECTIONS

- A. Section 03300 Concrete
- B. Section 05400 Metal Studding
- C. Section 06050 Plywood
- D. Section 06110 Wood framing
- E. Section 07260 Building Paper
- F. Section 07900 Sealants
- G. Section 08050 Doors & Windows
- H. Section 09100 Metal Support Systems
- I. Section 09200 Exterior Gypsum Substrates
- J. Section 09206 Metal Lath
- K. Section 09220 Portland Cement Plaster & Stucco

### 1.03 SUBMITTALS

Submit completed Project Remediation Recommendations, system guide on Senergy Stucco Resurfacing System components, product bulletins with installation requirements for each component of the wall system and system manufacturer's certificate of approval of applicator.

- A. Samples:
  - 1. Submit a 18.8 cm x 18.8 cm (7" x 7") sample for each finish color and texture specified.
  - 2. Each sample shall be prepared using the same tools and techniques as required for the actual application.
  - 3. An approved sample shall be available and maintained at the job site.
- B. Shop drawings:
  - 1. The applicator shall prepare and submit schedules and complete shop drawings to the Architect for approval.
  - 2. The drawings shall show all details, sizes, types, finishes, anchorage and sealant joints and other items as required or specified so that a proper evaluation can be made of the proposed materials and construction.

### 1.04 QUALITY ASSURANCE MEASURES

- A. Manufacturer: More than 10 years in the architectural coatings industry, with more than 1000 completed architectural coatings projects.
- B. Applicator: Approved by BASF Construction Chemicals, LLC - Wall Systems (herein after referred to as "BASF Wall Systems") in performing work of this Section.
  - 1. The Stucco Resurfacing System Applicator shall provide satisfactory evidence of his qualifications to apply the System.

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- C. Regulatory Requirements: Conform to applicable code requirements for finish system.
- D. Field Samples
  - 1. Construct one field sample panel for each color and texture, illustrating method of attachment, surface finish, color and texture, prepared using the same tools and techniques to be used for the actual application.
  - 2. Locate sample panel where directed.
- E. Design and Detailing a Stucco 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 closed cell backer rod as required at dissimilar materials and expansion joints within the Stucco Wall System shall provide a complete watertight system.
  - 2. Substrate Systems
    - a. Deflection of the substrate systems shall not exceed L/360.
    - b. Acceptable substrate shall be a clean, sound stucco wall that is free of chalking, flaking, peeling, blistering, efflorescence or any other condition that inhibits or prevents the bond of the Stucco Resurfacing System.
    - c. Acceptable sheathing substrates must be securely fastened per manufacturer recommendations and applicable building code requirements.
    - d. The applicator shall verify that the proposed substrate is acceptable prior to the Stucco Resurfacing System installation.
  - 3. System Joints
    - a. Expansion joints are required in the underlying stucco as is required by the local code jurisdiction.
    - b. Control joints are required in the underlying stucco, typically at a minimum of every 13.4 m<sup>2</sup> (144 ft<sup>2</sup>) and as specified by the design professional. The maximum uncontrolled length or width is 5.5 lineal meters (18 lineal feet) and a maximum uncontrolled length to height ratio of 2 1/2 : 1.
    - c. Expansion/control joint selection, design and location is the responsibility of the design professional.
  - 4. Coordination with other trades, architect, builder or owner shall evaluate adjacent materials such as windows, doors, etc. for conformance to manufacturer's details. Adjacent trades shall provide scaled shop drawings for review.

## 1.05 DELIVERY, STORAGE, HANDLING AND SITE CONDITIONS

- A. Deliver to the job site all materials in unopened, undamaged containers, clearly marked and identified with the system manufacturer's name and description of contents.
- B. Store materials inside, or under cover and off the ground and keep them dry, protected from the weather, direct sunlight, surface contamination, damaging temperatures, damage from construction traffic and other causes.
- C. Store pail materials in temperatures not less than 4°C (39.2°F) or more than 43°C (110°F).

## 1.06 SEQUENCING AND SCHEDULING

- A. Coordinate and schedule installation of Stucco Resurfacing System 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.

## 1.07 WARRANTY

- A. Provide Senergy one year coatings warranty for Senergy Surfacing System installations under provisions of Section [01700] [01740] [ ].
- B. Comply with Senergy project review requirements and notification procedures to assure qualification for warranty.

## 1.08 PROJECT/SITE CONDITIONS

- A. Existing Conditions  
The contractor shall refer to Section 01010 for project requirements and this contractor's responsibility thereunder.
- B. Environmental Requirements  
The contractor under this section shall verify site conditions to assure that the requirements of storage of materials and installation procedures conform to the system manufacturer's current product storage and application requirements as applicable to warranty conditions.
- C. Protection of Work
  - 1. Protect surrounding areas and surfaces during the application of the system.
  - 2. The system shall be protected when work ceases for the day or when an area is completed so that water will not infiltrate behind the system or damage system materials.

## PART 2 - PRODUCTS

### 2.01 MANUFACTURERS

Senergy Stucco Resurfacing System manufactured by BASF Wall Systems.

## 2.02 MATERIALS

### A. Senergy Base Coats

1. [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, 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]

B. Portland cement: conform to ASTM C150, Type I, II, or I/II, grey or white; fresh and free of lumps.

C. Water: clean and potable without foreign matter.

D. Senergy Reinforcing Mesh to achieve the desired impact resistance.

E. [TINTED PRIMER/STUCCOPRIME: 100% acrylic-based primer, available in a variety of colors to closely match any standard or custom Senergy Finish color.]

F. Finish: Factory-mixed formulation of 100% acrylic polymers and aggregate, integrally pigmented and formulated for specific textures. Senergy SENERFLEX Finishes or approved equal. Texture shall be [CLASSIC] [FINE] [TEXTURE] [COARSE] [SAHARA] [BELGIAN LACE] [ENCAUSTO VERONA] [BOREALIS] [AURORA TC-100] [AURORA STONE] [METALLIC] [ALUMINA].

-OR-

G. SENERLASTIC® Finish: Elastomeric factory-mixed formulation of 100% acrylic polymers and aggregate, integrally pigmented and formulated for specific textures. Senergy SENERLASTIC Finish or approved equal. Texture shall be [CLASSIC] [FINE] [TEXTURE] [SAHARA] [BELGIAN LACE]

-OR-

H. [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]

Check product bulletins for complete application instructions and for the use of Senergy Coatings for priming sealant joints and priming of the Base Coat in certain applications.

## 2.03 ACCESSORIES SPECIAL SHAPES

Used to enhance design aesthetics such as moldings, cornices, quoins, ogees, etc. Nominal 1.0 lbs/cu ft density expanded polystyrene. **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 Senergy Stucco Resurfacing Systems that incorporate expanded polystyrene (EPS) shapes. EPS has a sustained service temperature limitation of approximately 160°F (71°C).**

## PART 3 - EXECUTION

### 3.01 EXAMINATION

- A. Verify project site conditions under provisions of Senergy Project Remediation Recommendations form.
- B. Examine surfaces to receive Senergy Stucco Resurfacing System and verify that substrate and adjacent materials are dry, clean, cured, sound and free of releasing agents, paint, or other residue or coatings. Verify substrate surface is flat, free of fins.
- C. Ensure adhesion tests meet the requirements listed in the *Basics of Conducting Adhesion Testing* Technical Bulletin.
- D. Control/Expansion joint type and placement shall be the responsibility of the architect/engineer and substrate manufacturer.
- E. Unsatisfactory conditions shall be reported to the general contractor and corrected before application of the Senergy Stucco Resurfacing System.

### 3.02 PREPARATION

- A. Prepare all wall surfaces as per recommendations noted in completed Senergy Project Remediation Recommendations form.
- B. All surfaces to receive Senergy Resurfacing System components must be clean, dry and free of airborne contaminants.
- C. Protect all surrounding areas and surfaces from damage and staining during application of Senergy Stucco Resurfacing System.
- D. Protect finished work at end of each day to prevent water penetration.

### 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.

### 3.04 APPLICATION

General: Apply Senergy Stucco Resurfacing System materials in accordance with Specifications.

- A. Apply Senergy Base Coat over entire wall surface to a nominal 3/32" (wet) thickness.
- B. Senergy Base Coat/Reinforcing Mesh shall be applied so as to achieve Reinforcing Mesh embedment with no Reinforcing Mesh color visible. Double layers of mesh must be applied at all inside and outside corners. Overlap edges of Reinforcing Mesh a minimum of 2.5 inches.
- C. Apply Senergy [TINTED PRIMER] [STUCCOPRIME] to the dry Base Coat/Reinforcing Mesh.
- D. Apply Senergy Finish Coat to match the specified Finish type, texture and color after Primer and/or Base Coat are dry.

### 3.05 CLEANING

Clean adjacent surfaces and remove excess material, droppings, and debris.

### 3.06 PROTECTION

Protect finished work.

### 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 moisture drainage. The choices include Senturion® line of water drainage EIFS, commercial Senerflex® Wall Systems integrating moisture management features, Senergy Stucco Wall System, and Senergy Cement-Board Stucco™ Systems. Senergy Exterior Surfacing Systems for insulating concrete forms are also acceptable. 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 management provisions described above.]

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](http://www.senergy.basf.com) for additional information about products and systems and for updated literature.

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