**Senergy® Cement-Board Stucco™ 500 System**

*Impact resistant wall system incorporating a cement-board core, reinforced base coat and 100% acrylic polymer exterior finish*

**DESCRIPTION**
Senergy Cement-Board Stucco 500 System is an economical exterior wall system that provides impact- and weather-resistance where exterior insulation value is not required. It combines the strength and durability of ASTM C1325 cement boards with the performance and beauty of Senergy's 100% acrylic polymer reinforced base coats and textured finishes. Finishes are available in a limitless color selection and offer performance enhancement options, including increased resistance to dirt pick-up and mildew and added flexibility.

Behind the system, a weather resistant barrier with high tensile strength and complying with ASTM D226 protects the framing and cavity while serving as a component to evacuate incidental water, Cement-Board Stucco 500 allows you to enclose and finish a project in as little as two days, speeding occupancy.

**USES**
For economical, impact resistant exterior walls in light commercial, institutional and residential construction in areas that are weather protected (e.g., hallways, soffits, pool area ceilings, etc.) or of limited size (e.g., balconies, penthouses, equipment- or privacy-screen walls, etc.)

<table>
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<tr>
<th>Features</th>
<th>Benefits</th>
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<tr>
<td>Cement-board core</td>
<td>Reinforces impact and puncture resistance</td>
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<td>Unlimited colors, textures and architectural details</td>
<td>Support design freedom, create details that would be impossible or cost prohibitive with other claddings</td>
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<td>100% Acrylic base coats</td>
<td>Produce a weather-resistant barrier, provide crack resistance</td>
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<tr>
<td>100% Acrylic finish coats</td>
<td>Resist fading and abrasion, offer options for added dirt/mildew resistance</td>
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<tr>
<td>Attached directly to framing</td>
<td>Speeds application; reduces labor cost</td>
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Senergy® Cement-Board Stucco™
500 System

LIMITATIONS
1. Cracking due to dimensional stress at board joints might appear in the finished exterior surface.
2. Consult cement board manufacturer regarding framing requirements e.g. stud spacing, fastening systems, and minimum framing gauge.
3. Secondary moisture barrier must be high tensile strength in order to resist damage prior to the installation of the cement board.
4. Installation of the Senergy Cement Board Stucco System 500 is limited to low-rise construction except in cases of limited size and/or weather protected areas such as screen walls, soffits, fascia, protected areas, balcony areas, penthouse areas, etc.
5. Stud read-through is possible.
6. Thin veneer construction may reveal planar irregularities in the frame construction.

DIRECTIONS
General: Install horizontal to studs in a shingle-like manner an approved secondary moisture barrier that maintains high tensile strength. Immediately attach approved cement board panels horizontally to studs with approved screws and treating the board joints with Senergy SELF-ADHERING MESH TAPE and Base Coat.

[Option: Embed CORNER MESH in Base Coat at exterior corners prior to FLEXGUARD 4/Base Coat application.]
Embed Senergy FLEXGUARD 4 or Senergy SELF-ADHERING MESH TAPE into Senergy ALPHA, ALPHA GENIE or ALPHA DRY Base Coat over entire wall surface.

Apply Senergy Coatings into sealant joints after Base Coat has dried.
[Apply Senergy TINTED PRIMER to the dry Base Coat/Reinforcing Mesh.]
Apply SENERFLEX®, SILCOAT® SENERLASTIC™ or SENERLASTIC PLUS Finish in selected color and texture according to specifications when Primer and/or Base Coat are dry.

SYSTEMS SPECIFICATIONS
To perform in the expected manner, the Senergy Cement Board Stucco 500 System must be applied according to Senergy specifications, using only the listed and approved materials and components.

COMPONENTS
The Senergy Cement-Board Stucco 500 System incorporates an ASTM D226 compliant secondary weather barrier that demonstrates high tensile strength, ASTM C1325 cement board, Senergy Base Coat, SELF-ADHERING MESH TAPE, FLEXGUARD Reinforcing Mesh and a textured Finish from Senergy.

Specifying TINTED PRIMER can enhance appearance and performance.

System terminations are designed with additional weather protection such as SENERWRAP membrane to provide additional protection at openings. Flashing components help remove penetrating water.

Framing:
Load-bearing or nonload-bearing construction is provided with wood or steel studs. See the specifications for maximum stud spacing and other considerations.

Special Shapes:
Used to enhance design aesthetics, such as moldings, cornices, quoins, ogees, etc. These shapes can be attached to the Cement Board Stucco 500 system. They must meet Senergy Specifications. They must be reinforced with Base Coat and Reinforcing Mesh prior to application of the TINTED PRIMER and Finish.

Design Considerations
1. Maximum allowable deflection L/360, based on stud properties only.
2. Windows and doors may permit some water to pass through the frame material or joints. To reduce the potential for intruding water to degrade water-sensitive sheathing and framing, and to keep water out of the stud cavity, the rough opening must be properly protected and means provided to allow intruding water to escape.
3. Sill areas should be adequately flashed and weatherproofed.
4. Avoid details that trap water.
5. Follow the window and door manufacturer's recommendations for proper installation.

TECHNICAL INFORMATION
Consult the BASF Wall Systems Technical Services Department for specific recommendations concerning all other applications. Consult the Senergy website, www.senergy.cc, for additional information about products and systems and for updated literature.
PRODUCT DATA—SIZES & PACKAGING

Senergy SELF-ADHERING MESH TAPE used over cement-board joints is approximately 142 g/m² (5 oz/yd²) and is packaged in rolls measuring 102 mm x 45.7 m (4" x 150"). It is also available in 9" rolls measuring 229 mm x 45.7 m (9" x 150").

FLEXGUARD 4, standard Reinforcing Mesh at approximately 4.5 oz/yd² is available in 96.5 cm x 45.7 m (38" x 150") rolls.

CORNER MESH, intermediate-weight mesh at approximately 9.1 oz/yd² for use at exterior corners, is available in 241 mm x 45.7 m (9" x 150") rolls.

ALPHA Base Coat and ALPHA GENIE Base Coat are packaged in 27.2-kg, 19-liter (60-pound, 5-gallon) pails. Approximate coverage rate for each to embed FLEXGUARD 4 is 26 m² (280 ft²) per pail.

ALPHA DRY Base Coat is packaged in 22.6-kg (50-pound) bags. Approximate coverage rate to embed FLEXGUARD 4 is 11.1 m² (120 ft²) per bag.

Senergy TINTED PRIMER is packaged in 24.9-kg, 19-liter (55-pound, 5-gallon) pails. Approximate coverage rate is 69.6–116.1 m² (750–1,250 ft²) per pail.

SENERFLEX®, SILCOAT® SENERLASTIC™, SENERLASTIC™ PLUS Finishes are packaged in 31.7-kg, 19-liter (70-pound, 5-gallon) pails. Approximate coverages per pail for various textures are: CLASSIC [13 m² (140 ft²)], BELGIAN LACE [14.8 m² (160 ft²)], FINE [14.8 m² (160 ft²)], SAHARA [11.1 m² (120 ft²)], COARSE [8.3 m² (90 ft²)], TEXTURE (coverage varies depending upon application).

STORAGE

Store material in a cool, dry place. Avoid direct sunlight. Maintain temperature above 4°C (40°F) (10°C/50°F for AURORA TC-100, AURORA STONE, ALUMINA and BOREALIS Finishes).

HEALTH AND SAFETY

Follow good safety and industrial hygiene practices during handling and installing products and systems. Take necessary precautions and wear the appropriate personal protective equipment as needed. Read material safety data sheets and related literature on products before specification and/or installation.
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 managed 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 web-site, www.senergy.cc for additional information about products and systems and for updated literature.

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