



Senergy StuccoBase™

PRODUCT BULLETIN
1025273

USES

For use with the Senergy Stucco Wall System. Acceptable substrates include: concrete or unit masonry, Dens-Glass Gold (ASTM C1177), Fiberock Aqua-Tough Sheathing, water-resistant core gypsum sheathing (ASTM C79/ASTM C1396), cement-board (ASTM C1325 Type A Exterior) at a minimum 1/2 inch thickness, fiberboard ANSI/AHA A 194-85, plywood complying with US DOC PS 1-95, expanded polystyrene insulation board complying with ASTM C578 Type IV with nominal density 1.5 lbs/ft³ extruded polystyrene, and oriented strand board (OSB), complying with US DOC PS 2-95, to which a weather-resistive membrane and lath are attached.

TECHNICAL INFORMATION

Consult the Degussa 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.

MIXING

1. Use mixer which is clean and free of foreign substances.
2. Add 18.9–22.7 L (5–6 gallons) of clean potable water to mixer per bag of SENERGY STUCCOBASE.
3. Add one bag of SENERGY STUCCOBASE.
4. Add one half 45.4–54.4 kg (100–120 lbs) of the required plaster sand (ASTM C144 or ASTM C897).
5. Mix for 3–4 minutes at normal mixing speed while adding the remainder 45.4–54.4 kg (100–120 lbs) of the plaster sand. Allow material to set for 2–4 minutes, then remix adding water to achieve desired consistency.

Note: Over-mixing may cause excessive air entrainment.

Plaster sand must be clean and free from deleterious amounts of loam, clay, silt, soluble salts and organic matter. Sampling and testing must comply with ASTM C144 or ASTM C897. Plaster sand must be graded within the following limits:

Weight Percent of Sand Retained +/- 2 %		
U.S. Standard Sieve	Min.	Max.
No. 4	-	0
No. 8	0	10
No. 16	10	40
No. 30	30	65
No. 50	70	90
No. 100	95	100

DESCRIPTION

Factory-blended mixture of Portland cement, reinforcing fibers, and other proprietary ingredients. SENERGY STUCCOBASE is a concentrate which requires the addition of 90.7–108.9 kg (200–240 lbs) of plaster sand conforming to ASTM C144 or ASTM C897 and 18.9–22.7 liters (5–6 gallons) of potable water. SENERGY STUCCOBASE conforms to ASTM C926, the standard specification for application of Portland cement-based stucco.

PACKAGING

36.3 kg (80 lbs) per bag

COVERAGE

Coverage may vary depending upon surface conditions and application technique.

7.43–8.36 m² (80–90 ft²) per 80 lb bag at a thickness of 3/8" to 1/2"

Features	Benefits
Superior weathering properties	Long-term durability
Proprietary formulation	Improved moisture resistance and low water absorption
Fiber reinforced	Resists shrinkage cracking when properly cured
Needs only addition of water and sand	Easy to mix and use with consistent results
Concentrated for use with local sand	Economical

Senergy® StuccoBase™

APPLICATION

1. Apply Senergy Stucco System materials in accordance with current Senergy specifications and details.
2. Over wood or metal framing with sheathing, a weather resistive barrier and wire fabric or self furring, expanded metal lath must be installed in accordance with ASTM C1063, ASTM C847, ASTM C933, ASTM C1032. When installed over wood based sheathing (plywood, OSB, or asphalt-impregnated sheathing), two layers of grade "D" building paper complying with federal specification UUB 790 are required by UBC or one layer of Grade D 60 minute paper with one layer of EPS or extruded polystyrene board with tongue and grooved edges, prior to installation of the wire fabric or self furring, expanded metal lath.
3. Over concrete or masonry, remove all dust, dirt, grease, oil, laitance, efflorescence, biological residue, existing paint or coatings, curing compounds, form release agents or any other contaminants which might affect the bond. Senergy STUCCOBOND may be used to increase bond strength.
4. Trim accessories are installed per the project requirements and/or specifications.
5. a. For 9.5 mm (3/8") to 13 mm (1/2") application, apply mixed SENERGY STUCCOBASE™ to the acceptable substrate by hand troweling or machine spraying in one coat to a minimum thickness of 9.5 mm (3/8") and a maximum thickness of 13 mm (1/2") completely embedding the lath. Use a rod and darby to level the applied base coat without exposing the lath.
- OR -
 1. For 19 mm (3/4") to 22 mm (7/8") application, apply mixed SENERGY STUCCOBASE first "scratch" coat to the acceptable substrate by hand troweling or machine spraying to a minimum thickness of 9.5 mm (3/8") and a maximum thickness of 13 mm (1/2"), ensuring that the first coat is thick enough to embed the lath and allow for scoring of the surface. As soon as first coat becomes firm, score the entire surface in one direction only. Score vertical surfaces horizontally to provide key for second coat.
 2. Apply the second "brown" coat by hand troweling or machine spraying to provide the required total thickness as soon as the first coat is rigid enough to accept it without damage to the first coat. Level surface using rod or darby. Brown coat must be uniform in thickness. Ensure that the second coat is applied over a damp first coat. The first coat and second coat combined thickness will be from 19 mm (3/4") to 22 mm (7/8"). This double back method of application is done where by the first and second coats are applied and cured as one system. Application of the second brown coat may be delayed, provided the second coat is applied over a sufficiently damp first coat.
6. After surface has sufficiently hardened, use sponge or hard rubber float as required to fill voids, holes or imperfections, leaving surface ready to receive Senergy Stucco Prime or Finish Coat.
7. Damp cure for at least 48 hours by lightly and evenly fogging the surface with water at least twice a day. Direct sunlight, hot temperatures, low humidity and wind may make additional fogging necessary.
8. Allow Base Coat to cure a minimum of 6 days prior to application of EPS insulation board shapes or primer and Finish Coat application.

LIMITATIONS

1. Surface and ambient temperatures must be between 4°C and 36°C (40°F–100°F) during the application and curing.
2. Do not install stucco under hot, dry, or windy conditions.
3. Avoid applying in direct sunlight.
4. Protect walls from rain, snow, and frost for a period of 48–72 hours; otherwise, low strength, streaking, or efflorescence may occur.
5. Expansion joints are required at least every 13m² (144 ft²), at the junction of dissimilar substrates, at existing joints in the substrate, and at floor lines in multi-level construction.
6. Do not install stucco over accessories, such as lights, bullet boxes, hose bibs.
7. Texture will vary depending upon application technique and sand type; test installations are recommended.
8. Apply SENERGY STUCCOBASE in a continuous application within the area defined by expansion joints; always work to a wet edge to eliminate cold joints.
9. Proper application is the responsibility of the user.
10. Protect bussed materials from moisture during shipment and storage.
11. Shelf life of STUCCOBASE PREMIX is 8 months if stored as directed.

HEALTH AND SAFETY

Caution

Contains calcium hydroxide, fly ash, gypsum, magnesium hydroxide, Portland cement, silica, crystalline quartz.

Risk

Product is alkaline on contact with water and may cause injury to skin or eyes. Ingestion or inhalation of dust may cause irritation. Contains crystalline silica. NTP and IARC recognize respirable crystalline silica as a human carcinogen. Repeated or prolonged overexposure to free respirable quartz may cause silicosis or other serious and delayed lung injury.

Precautions

Avoid contact with skin, eyes and clothing. Prevent inhalation of dust. Wash thoroughly after handling. Keep container closed when not in use. DO NOT take internally. Use only with adequate ventilation. Use impervious gloves, eye protection and if the TLV is exceeded or used in poorly ventilated area, use NIOSH/MSHA approved respiratory protection in accordance with applicable Federal, state (provincial) or local regulations.

First Aid

1. For eye contact, flush thoroughly with water for at least 15 minutes. SEEK IMMEDIATE MEDICAL ATTENTION.
2. For skin contact, wash affected areas with soap and water. If irritation persists, SEEK MEDICAL ATTENTION. Remove and wash contaminated clothing.
3. If inhalation causes physical discomfort, remove to fresh air. If discomfort persists or any breathing difficulty occurs or if swallowed, SEEK IMMEDIATE MEDICAL ATTENTION.

Read Material Safety Data Sheet before using this product.

PROPOSITION 65

This product contains materials listed by the state of California as known to cause cancer, birth defects or other reproductive harm.

VOC Content

0 g/l, or 0 lbs/gal less water and exempt solvents.

For medical emergencies only call chemtrec at (800) 424-9300.

RESIDENTIAL POLICY

On one and two-family residential framed construction, Degussa Wall Systems, Inc. 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 Degussa Wall Systems, Inc. warrant the use of any other system on this type of construction without expressed written authorization from Degussa Wall Systems, Inc. [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 Degussa 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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