

Alpha Base Coat

PRODUCT BULLETIN
1017583

Uses

1. For use with the Senerflex® Wall System to adhere expanded polystyrene insulation board to the following acceptable substrates: unpainted and unglazed concrete or unit masonry, Dens-Glass Gold (ASTM C1177), Fiberock Aqua-Tough Sheathing, water-resistant core gypsum sheathing (ASTM C79/ASTM C1396), new and untreated Exposure 1 or exterior grade plywood or Exposure 1 OSB, PermaBase cement-board, Wonder Board cement-board, Durock cement-board, Plycem cement-board, Harditex cement-board, and Eterspan cement-board (ASTM C1325 Type A Exterior).
Note: Wood-based sheathing substrates require priming with SENERPRIME.
2. To adhere expanded polystyrene insulation board to expanded polystyrene insulation board.
3. For use with Senerflex®, Senturion® I, II, and III, Senergy Cement-Board Stucco™ System and all Senergy Surfacing Systems to embed CORNER MESH and SENERGY REINFORCING MESH.

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. Prepare in a container which is clean and free of foreign substances. Do not use a container which has contained or been cleaned with a petroleum-based product.
2. Mix the contents of the ALPHA BASE COAT pail with a low speed drill and paddle mixer until thoroughly blended. Mix one part (by weight) Portland cement with one part ALPHA BASE COAT. Add Portland cement in small increments, thoroughly mixing to a homogeneous consistency after each additional increment.
3. Clean, potable water may be added to adjust workability.
4. Additives are not permitted.
5. Close container when not in use.
6. Clean tools with soap and water immediately after use.

APPLICATION

To adhere EPS to acceptable substrates or to other EPS:

NOTCHED TROWEL METHOD—Apply mixed ALPHA 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 13 mm (1/2") apart, or 10 mm x 10 mm (3/8" x 3/8") notches spaced 10 mm (3/8") apart.
-OR-

DESCRIPTION

100% acrylic adhesive and base coat that is field-mixed with Type I or Type II Portland cement. Very creamy texture that spreads easily.

PACKAGING

27.2 kg per 19-liter pail
(60 lbs per 5-gallon pail)

COVERAGE

Approximate coverage rates are as follows:

1. Adhere EPS insulation board to substrate:
14.8 m² (160 ft²) per pail via notched trowel method,
16.7 m² (180 ft²) per pail via ribbon & dab method
2. Embed FLEXGUARD 4:
26 m² (280 ft²) per pail,
Embed INTERMEDIATE 12:
18.5 m² (200 ft²) per pail,
Embed HI-IMPACT 20 & FLEXGUARD 4: 14.8 m² (160 ft²) per pail
3. Adhere EPS insulation board to substrate and embed FLEXGUARD 4: 11.1 m² (120 ft²) per pail

Features	Benefits
Smooth, creamy consistency	Trowels on easily, speeds mesh embedment, reduces applicator arm fatigue, increases job-site productivity
Familiar 1:1 mixing ratio	Easy to mix—less chance of error
High polymer content	Provides long-term durability
Water based	Safe, non-toxic, clean up easily with soap and water

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RIBBON & DAB METHOD—Apply a ribbon of mixed ALPHA BASE COAT approximately 50 mm (2") wide by 10 mm (3/8") thick to entire perimeter of each board with a trowel. Apply dabs or ribbons of 10 mm (3/8") thickness by 100 mm (4") in diameter, approximately 200 mm (8") o.c. over entire surface of board to ensure uniform contact and high initial grab.

Note: Ribbon & dab method is not recommended on gypsum sheathing substrates or Dens-Glass Gold. Allow application of insulation board to dry (normally 8 to 10 hours) prior to application of ALPHA BASE COAT/Reinforcing Mesh.

To adhere EPS to approved substrates on Senerflex Channeled Adhesive Design option only:

Apply to solid surface of insulation board using a stainless steel trowel with 13mm x 13mm (1/2" x 1/2") notches spaced 50.8 mm (2") apart, with the notches installed vertically [parallel to the 50.8 mm (2") dimension]. Allow application of EPS insulation board to dry (normally 8 to 10 hours) prior to application of ALPHA BASE COAT/REINFORCING MESH.

As a Base Coat for embedding Reinforcing Mesh:

ALPHA BASE COAT shall be applied so as to achieve Reinforcing Mesh embedment with no Reinforcing Mesh color visible. Ensure Reinforcing Mesh is free of wrinkles. Allow ALPHA BASE COAT with embedded Reinforcing Mesh to dry hard (normally 8 to 10 hours) prior to application of Senergy Primer or Finish.

Limitations

1. Requires job-site mixing. Must be used after mixing.
2. Protect Senergy materials during transportation and storage to avoid physical damage.
3. Store Senergy materials in a cool, dry place protected from freezing. Store at no less than 4°C (40°F). Protect from extreme heat and direct sunlight. Shelf life is two years when unopened and stored as directed.
4. Do not apply Senergy materials in ambient temperatures below 4°C (40°F). Provide supplementary heat during installation and drying period (at least 24 hours after installation and until dry) when temperatures less than 4°C (40°F) prevail.
5. Do not apply Senergy materials to frozen surfaces.

HEALTH AND SAFETY

Caution

Contains silica, crystalline quartz.

Risk

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. DO NOT take internally. Use only with adequate ventilation. Use impervious gloves, eye protection and if the TLV is exceeded or used in a poorly ventilated area, use NIOSH/MSHA approved respiratory protection in accordance with applicable Federal, state and local regulations.

First Aid

1. For eye contact, flush thoroughly with water for at least 15 minutes.
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

7 g/l, or 0.06 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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