Senergy®

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Alpha Dry Base Coat

PRODUCT BULLETIN
1017584

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.

TECHNICAL DATA

CAN4-S101-M standard methods of fire endurance tests of building construction & materials:
The Senerflex Wall System with ALPHA DRY BASE COAT satisfied conditions of acceptance.

CAN4-S114 standard test for determination of non-combustibility in building materials:
ALPHA DRY BASE COAT satisfied conditions of acceptance.

MIXING

1. Prepare each bag in a 19-liter (5-gallon) 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. Fill the container with approximately 5.6 liters (1.4 gallons) of clean, potable water.
3. Add ALPHA DRY BASE COAT in small increments, mixing after each addition.
4. Mix the contents of the ALPHA DRY BASE COAT pail with a low speed drill and paddle mixer until thoroughly blended.
5. Additional ALPHA DRY BASE COAT or water may be added to adjust workability.
6. Let stand for 5 to 10 minutes, then remix and retemper before use.
7. Additives are not permitted.
8. Close container when not in use.
9. Clean tools with soap and water immediately after use.

Features	Benefits
Dry, bagged product	Does not require heated shipping or storage, just add water to mix
Mix only what you need	Use for small repairs, reduces dumpster and landfill costs of pail disposal
Lower cement-to-polymer ratio	Reduces the chance for efflorescence
Smooth, creamy consistency	Trowels easily, speeds mesh embedment, reduces applicator arm fatigue, increases job-site productivity
Water based	Safe, non-toxic, clean up easily with soap and water

DESCRIPTION

Dry-mix polymer adhesive and base coat containing Portland cement, and requiring only water for mixing.

PACKAGE

22.6 kg per bag
(50 lbs per bag)

Coverage

Approximate coverage rates are as follows:

1. Adhere EPS insulation board to substrate: 6.5 m^2 (70 ft^2) per bag via notched trowel method
2. Embed FLEXGUARD 4: 11.1 m^2 (120 ft^2) per bag, Embed INTERMEDIATE 12: 7.8 m^2 (85 ft^2) per bag, Embed HI-IMPACT 20 & FLEXGUARD 4: 6.5 m^2 (70 ft^2) per bag
3. Adhere EPS insulation board to substrate and embed FLEXGUARD 4: 4.6 m^2 (50 ft^2) per bag

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APPLICATION

To adhere EPS to acceptable substrates or to other EPS:

NOTCHED TROWEL METHOD—Apply mixed ALPHA DRY 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-

RIBBON & DAB METHOD—Apply a ribbon of mixed ALPHA DRY 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 DRY BASE COAT/REINFORCING MESH.

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

Apply to solid surface of insulation board using a stainless steel trowel with 13 mm x 13 mm (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 DRY 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 DRY BASE COAT with embedded Reinforcing Mesh to dry hard (normally 8 to 10 hours) prior to application of Senergy Primer or Finish.

LIMITATIONS

1. Protect bagged materials from moisture during transportation and storage.
2. Store Senergy materials in a cool, dry place. Store at no less than 4˚C (40˚F). Protect from extreme heat and direct sunlight. Shelf life is one year when unopened and stored as directed.
3. 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.
4. Do not apply Senergy materials to frozen surfaces.

HEALTH AND SAFETY

Caution

Contains crystalline silica, Portland cement, calcium carbonate, fly ash, proprietary polymer.

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 silicousis 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

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.

DISCLAIMER

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