

# Cool-Set Alpha Dry Adhesive

PRODUCT BULLETIN  
**1025188**

## Uses

- For use in temperatures between 10°C (50°F) and 21°C (70°F) with the Senerflex® Wall System to adhere expanded polystyrene insulation board to the following approved substrates: SENERSHIELD™, SENERSHIELD-R, 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 and 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. Not recommended when temperatures exceed 21°C (70°F).**
- To adhere expanded polystyrene insulation board to expanded polystyrene insulation board in temperatures between 10°C (50°F) and 21°C (70°F).

## TECHNICAL INFORMATION

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

## MIXING

- 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.
- Fill the container with approximately 5.6 liters (1.4 gallons) of clean, potable water.
- Add COOL-SET ALPHA DRY ADHESIVE in small increments, mixing after each addition.
- Mix COOL-SET ALPHA DRY ADHESIVE and water with a mixer to a homogeneous consistency.
- Additional COOL-SET ALPHA DRY ADHESIVE or water may be added to adjust workability.
- Let stand for 5 to 10 minutes, then remix and retemper before use.
- Additives are not permitted.
- Close container when not in use.
- 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 COOL-SET ALPHA DRY ADHESIVE to entire surface of insulation board using a stainless steel trowel or spray equipment. Use a notched trowel with 13 mm x

## DESCRIPTION

A faster setting dry-mix polymer adhesive containing Portland cement, and requiring only water for mixing. During cooler weather, COOL-SET ALPHA DRY ADHESIVE allows rasping and Base Coat application only hours after attaching the insulation boards.

## PACKAGE

22.6 kg per bag  
(50 lbs per bag)

## COVERAGE

Approximate coverage rates are as follows:  
Adhere EPS insulation board to substrate: 6.5 m<sup>2</sup> (70 ft<sup>2</sup>) per bag via notched trowel method.

Features	Benefits
Faster set time than regular adhesive	"Stick boards" in the morning, rasp and apply Base Coat in the afternoon
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
Water based	Safe, non-toxic, clean up easily with soap and water

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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 COOL-SET ALPHA DRY ADHESIVE approximately 50 mm (2") wide by 10 mm (3/8") thick to entire perimeter of each board with a trowel or spray equipment. Apply dabs or ribbons with a stainless steel trowel 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 Senergy 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 or spray equipment. Use 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 Senergy Base Coat/Reinforcing Mesh.

## Limitations

1. Protect bagged materials from moisture during transportation and storage.
2. Store Senergy materials in a cool, dry place. Protect from extreme heat. Shelf life is one year when unopened and stored as directed.
3. Do not apply Senergy materials in ambient temperature 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.
5. Do not use this product at temperatures above 21°C (70°F).

## HEALTH AND SAFETY

### Caution

Contains silica, crystalline quartz, Portland cement, limestone, iron oxide, calcium sulfate, calcium oxide, magnesium oxide, aluminum silicate, silica, amorphous.

### 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. 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, 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](http://www.senergy.cc) for additional information about products and systems and for updated literature.

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