

Senershield™

PRODUCT BULLETIN
1017731

USES

For use as a trowel applied air/weather resistive barrier over gypsum sheathing (ASTM C79/ASTM C1396), Dens-Glass Gold (ASTM C1177), Fiberock Aqua-Tough Sheathing, cement-boards (ASTM C1325 Type A Exterior), and poured concrete or unit masonry. All sheathing joints and terminations must be reinforced with minimum (101.6 mm) 4" wide SELF-ADHERING MESH TAPE, FLEXGUARD 4 Reinforcing Mesh or SENERFLASH™ 4 OR 9.

Note: Wood-based sheathings are not acceptable substrates.

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 that 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 SENERSHIELD pail with a low speed drill and paddle mixer until thoroughly blended.
3. Mix one part (by weight) Portland cement with one part SENERSHIELD. Add Portland cement in small increments, thoroughly mixing to a homogeneous consistency after each additional increment.
4. After mixing, allow the mix to set for 5 minutes.
5. Remix or retemper adding water if needed for workability.
6. Up to 0.9 liter (1 quart) of clean, potable water per mixed pail (13.6 kg/30 lbs of SENERSHIELD) may be added to adjust workability. Do not overwater.
7. Additives are not permitted.
8. Close container when not in use.
9. Clean tools with water immediately after use.

APPLICATION

1. General: Apply Senergy Wall System materials in accordance with current Senergy specifications and details.
2. Substrate shall be of a type approved by Senergy and shall be installed per substrate manufacturer's instructions. Substrate shall be dry, clean, sound and free of release agents, paint or other residue or coatings. Verify substrate is flat, free of fins or planar irregularities greater than 6.4 mm in 3 m (1/4" in 10'). Unsatisfactory conditions shall be reported to the general contractor and corrected before application of the Senergy Wall System.
3. Wrap openings according to the current Secondary Moisture Protection Barrier Guidelines for Senerflex Wall Systems.

DESCRIPTION

A 100% acrylic-based, fiber-reinforced liquid applied air/weather resistive barrier that is field-mixed with Type I or Type II Portland cement.

PACKAGING

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

COVERAGE

Approximate coverage rate
16.7–17.7 m² (180–190 ft²)
per pail at a thickness of
2.4 mm (3/32")

Features	Benefits
Mixes and handles like a base coat	Speeds application, easy to use
Excellent tensile bond	Strengthens durability and wind-load resistance
Trowel-applied liquid	Creates continuous membrane with no seams
Type III air barrier	Provides third party confirmation of highest rating for air barriers

Senershield™

- Center and apply SENERFLASH 4 or 101.6 mm (4") SELF-ADHERING MESH TAPE to all sheathing joints. Lap SENERFLASH or SELF-ADHERING MESH TAPE 63.5 mm (2 1/2") minimum at intersections.

Note: Prior to applying SENERFLASH, apply SENERGY FLASHING PRIMER in accordance with the product bulletin application instructions.

-OR-

- Apply mixed SENERSHIELD to a minimum thickness of approximately 2.4 mm (3/32") to surface of sheathing at least 152.4 mm (6") on both sides of the sheathing joints.
 - Immediately place and center minimum 4" (101.6 mm) wide FLEXGUARD 4 REINFORCING MESH over the sheathing joint against wet SENERSHIELD. Embed the mesh into the SENERSHIELD by troweling from the center to the edges. Ensure mesh extends evenly on both sides of the sheathing joint.
 - Lap mesh 63.5 mm (2 1/2") minimum at intersections.
- Apply mixed SENERSHIELD over entire approved substrate with a stainless steel trowel to a thickness of 2.4 mm (3/32") with no pinholes or voids.
- Allow 8 to 10 hours for thorough cure prior to applying a Senergy Base Coat/Adhesive to the cured surface of SENERSHIELD.

LIMITATIONS

- Protect Senergy materials during transportation and installation to avoid physical damage.
- 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.
- 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.
- Do not apply Senergy materials to frozen or frost-laden surfaces.
- Limit the exposure of SENERSHIELD to the weather. The maximum recommended exposure period is 30 days.
- Prior to application of the Senergy Wall System, visually inspect the SENERSHIELD for voids, pinholes, surface deficiencies, etc. Repair deficiencies and areas that are not intact. Apply additional SENERSHIELD as necessary such that SENERSHIELD is free of voids, pinholes, etc.
- Dry/cure times of adhesively applied EPS insulation board may be prolonged, particularly in cool and /or damp weather.
- Non-cementitious adhesives are not recommended for insulation board attachment.

TECHNICAL DATA

Test	Result
Tensile Bond Strength (ASTM C297):	
Cement board	28.7 psi
Dens-Glass Gold	37.4 psi
Gypsum sheathing	13.5 psi
Flexibility Mandrel Bend (ASTM D522):	Passes 4" mandrel @ 40°F
Water Resistance (ASTM D2247):	No deleterious effects after 14 days exposure
Flammability (ASTM E84):	
Flame Spread	<25
Smoke Dev.	<450
Class	A
Water Vapor Transmission (ASTM E 96 Method B):	Average 20.3 perms
Air Leakage (ASTM E283):	
Installed over Dens-Glass Gold	0.013 l/s/m ²
Classification	Type III air barrier
Hydrostatic Pressure Resistance	Pass @ 12" head

HEALTH AND SAFETY

Caution

Contains crystalline silica.

Risk

May cause eye, skin or respiratory irritation. Ingestion may cause irritation. Contains crystalline silica. NTP and IARC recognize respirable crystalline silica as a suspected human carcinogen. The exposure to crystalline silica during the normal use of this product will be little or none.

Precautions

Avoid contact with eyes, skin and clothing. Use with adequate ventilation. DO NOT take internally. Wash thoroughly after handling. Use impervious gloves, eye protection and if the TLV is exceeded or if used in a poorly ventilated area, use NIOSH/MSHA approved respiratory protection in accordance with Federal, state and local requirements. Keep container closed when not in use. All label warnings must be observed until container is commercially cleaned or reconditioned.

First Aid

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

11 g/l, or 0.09 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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