

Senershield®

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.

Primary 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 102mm wide SELF-ADHERING MESH TAPE, FLEXGUARD 4 Reinforcing Mesh or SENERFLASH™ 4 OR 9.

Note: Wood-based sheathings are not acceptable substrates.

Packaging

27.2kg per 19 litre unit

Coverage

Approximate coverage rate 16.7–17.7m² per unit at a thickness of 2.4mm

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 y



We create chemistry

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Mixing

- 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.
- Mix the contents of the SENERSHIELD unit with a low speed drill and paddle mixer until thoroughly blended.
- 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.
- After mixing, allow the mix to set for 5 minutes.
- Remix or retemper adding water if needed for workability.
- Up to 0.9 litre of clean, potable water per mixed unit may be added to adjust workability. Do not overwater.
- Additives are not permitted.
- Close container when not in use.
- Clean tools with water immediately after use.

Application

- General: Apply Senergy Wall System materials in accordance with current Senergy specifications and details.
- 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 3m. Unsatisfactory conditions shall be reported to the general contractor and corrected before application of the Senergy Wall System.

- Wrap openings according to the current Secondary Moisture Protection Barrier Guidelines for Senerflex Wall Systems.
- Centre and apply SENERFLASH 4 or 102mm SELF-ADHERING MESH TAPE to all sheathing joints. Lap SENERFLASH or SELF-ADHERING MESH TAPE 63.5mm minimum at intersections.
Note: Prior to applying SENERFLASH, apply SENEGY FLASHING PRIMER in accordance with the product bulletin application instructions.
-OR-
 - a. Apply mixed SENERSHIELD to a minimum thickness of approximately 2.4mm to surface of sheathing at least 152.4mm on both sides of the sheathing joints.
 - b. Immediately place and center minimum 4" 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.
 - c. Lap mesh 63.5mm minimum at intersections.
- Apply mixed SENERSHIELD over entire approved substrate with a stainless steel trowel to a thickness of 2.4 mm 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.

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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. 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. Provide supplementary heat during installation and drying period (at least 24 hours after installation and until dry) when temperatures less than 4°C 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 Information

Consult the BASF Construction Chemicals 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

Test	Result
Tensile Bond Strength (ASTM C297) Cement board Dens-Glass Gold Gypsum sheathing	0.19N/mm ² (28.7psi) 0.25N/mm ² (37.4 psi) 0.09N/mm ² (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 Smoke Dev. Class	<25 <450 A
Water Vapour Transmission (ASTM E 96 Method B)	Average 20.3 perms
Air Leakage (ASTM E283) Installed over Dens-Glass Gold Classification Hydrostatic Pressure Resistance	0.013 l/s/m ² Type III air barrier Pass @ 12" head

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Health and Safety

Caution

Contains crystalline silica.

Risk

May be harmful if inhaled. Vapours may cause respiratory tract irritation. Prolonged or repeated skin contact may cause irritation. May cause eye irritation. This product contains crystalline silica which is a chronic lung hazard if airborne dust is inhaled. In this physical form the silica does not pose an inhalation hazard.

Precautions

Avoid contact with eyes, skin, and clothing. Wear goggles, rubber gloves, and protective clothing when handling. Use local ventilation or approved respiratory protection to keep exposures below recommended exposure limits. Wash thoroughly after handling.

First Aid

- For eye contact, rinse eyes with water. Remove any contact lenses, and continue flushing with plenty of water for several minutes. SEEK MEDICAL ATTENTION if irritation develops and persists.
- For skin contact, wash affected areas with plenty of water, and soap if available, for several minutes. SEEK MEDICAL ATTENTION if irritation develops and persists.

- If inhaled, remove from area to fresh air. SEEK MEDICAL ATTENTION if respiratory irritation develops or if breathing becomes difficult.
- If consumed, give 3–4 glasses of milk (if not available, give water), but DO NOT induce vomiting. If vomiting occurs, give fluids again. Get medical attention to determine whether vomiting or evacuation of stomach is necessary. Do not give anything by mouth to an unconscious or convulsing person.

Read Material Safety Data Sheet before using this product.

Note:

BASF Wall Systems is an operating unit of BASF Construction Chemicals, LLC. (herein after referred to as "BASF Wall Systems")

Residential Policy

Apply walls systems in accordance with local building codes in force at the time of construction. 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. Please view the Senergy Residential Policy Bulletin on the Senergy website for a more detailed discussion of this topic.

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