

Senershield™-R

PRODUCT BULLETIN
1021096

USES

For use as an air/weather resistive barrier over the following exterior wall substrates: Dens-Glass Gold® (ASTM C1177), Fiberock Aqua-Tough Sheathing, PermaBase cement-board by National Gypsum and other cement-boards (ASTM C1325 Type A Exterior), Exposure I or exterior plywood sheathing (grade C-D or better), Exposure I OSB and gypsum sheathing (ASTM C79/ASTM C1396). All sheathing joints, terminations, inside and outside corners must be reinforced with 4" or 9" SHEATHING FABRIC or SENERFLASH 4 or 9.

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. Use directly from original packaging or 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 SENERSHIELD-R with a clean, rust-free paddle and drill until thoroughly blended. A small amount of clean, potable water may be added to adjust workability. Do not over water maximum 16 oz.
3. Additives are not permitted.
4. Close container when not in use.
5. 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 acceptable 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 with SHEATHING FABRIC by applying mixed SENERSHIELD-R to all surfaces and immediately embedding SHEATHING FABRIC. Once dry, apply a second coat to ensure a complete, void-free membrane. Apply Fabric in accordance with *Secondary Moisture Protection Barrier Guidelines for Senergy Wall Systems*.

Note: It is necessary to pre-wet the synthetic roller pad with water and spin out the excess water. The pre-wetting only needs to be done once at the start of application.

4. Spot all fasteners and precoat sheathing joints, terminations, inside and outside corners with mixed SENERSHIELD-R using a 101 mm (4") wide by 20 mm (3/4") nap roller or brush.
5.
 - a. Immediately place and center SHEATHING FABRIC over wet SENERSHIELD-R at all sheathing joints, terminations, inside and outside corners, as well as knot holes and check cracks that may exist in plywood or OSB. Ensure Fabric extends evenly on both sides of the sheathing joint.
 - b. Lap mesh 63.5 mm (2 1/2") minimum at intersections.
 - c. Allow to dry to the touch before applying SENERSHIELD-R to entire wall surface.

DESCRIPTION

Ready-mixed flexible coating that is roller- or brush-applied directly to approved wall substrates and that functions as an air and weather barrier. Provides excellent secondary moisture protection to Senergy Wall Systems.

PACKAGING

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

4" SHEATHING FABRIC:
101.5 mm x 54.8 m
(4" x 180 ft.) roll

9" SHEATHING FABRIC:
228.5 mm x 54.8 m
(9" x 180 ft.) roll

COVERAGE

Approximate coverage rates over each approved substrate are based on 10 mils (wet) per coat:

Dens-Glass Gold: 35.3–46.1 m²
(380–400 ft²) per pail (1 coat)

Exterior Gypsum: 46.1–53.3 m²
(500–600 ft²) per pail (1 coat)
OSB: 23–32.2 m² (250–350 ft²)
per pail (2 coats)

Cement Board: 36.9–46.1 m²
(400–500 ft²) per pail (1 coat)

Plywood: 23–32.2 m² (250–
350 ft²) per pail (2 coats)

Features	Benefits
Liquid-applied, continuous membrane	Eliminates seams, lap joints and staples
Compatible with Senergy adhesives	Eliminates mechanical attachments of EPS
Roller or brush applied	Applicator friendly and quick application
Type III air barrier	Provides third party confirmation of highest rating for air barriers

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6. a. Apply SENERSHIELD-R to plywood or OSB substrate(s) with a 20 mm (3/4") nap roller to a uniform consistent thickness of a nominal 10 wet mils. Prior to application of a second coat, visually inspect to assure sheathing surface is blister free and coating is free of voids and pinholes. Repair if needed and then apply a second coat after the initial coating is sufficiently dry.
- b. Apply SENERSHIELD-R to Dens Glass Gold (ASTM C1177) cement board (ASTM C1325 Type A Exterior) and gypsum sheathing (ASTM C1396) substrate(s) with a 20 mm (3/4") nap roller to a uniform consistent thickness of normal 10 wet mils that is free of voids and pinholes.
Note: A minimum of two (2) 10 wet mil coats of SENERSHIELD-R is required over OSB and plywood.
7. Allow typically 8 to 10 hours to dry prior to applying a Senergy Base Coat/Adhesive and insulation board.

LIMITATIONS

1. Protect Senergy materials during transportation and installation to avoid physical damage.
2. 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.
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 or frost-laden surfaces.
5. Limit the exposure of SENERSHIELD-R to the weather. The maximum recommended exposure period is 30 days.
6. Prior to application of the Senergy Wall System, visually inspect the SENERSHIELD-R for voids, pinholes, surface deficiencies, etc. Repair deficiencies and areas that are not intact. Apply additional SENERSHIELD-R as necessary such that SENERSHIELD-R is free of voids, pinholes, etc.
7. Dry/cure times of adhesively applied EPS insulation board may be prolonged, particularly in cool and /or damp weather.
8. Non-cementitious adhesives are not recommended for EPS insulation board attachment.

HEALTH AND SAFETY

Caution

Contains crystalline silica.

Risk

Prolonged or repeated skin and eye contact may cause slight irritation. This product contains crystalline silica which can cause lung damage if airborne dust is inhaled. In this physical form, the silica does not pose an inhalation hazard.

Precautions

Avoid getting in eyes, on skin, or on clothing. Avoid breathing vapors or mist. Wear safety glasses or goggles, impervious gloves, and clothing with long sleeves and pants. If TLV or PEL can be exceeded, wear respirator selected by a technically qualified person. Wash thoroughly after handling. Wash contaminated clothing before reuse.

First Aid

1. 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.
2. 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.
3. If inhaled, remove from area to fresh air. SEEK MEDICAL ATTENTION if respiratory irritation develops or if breathing becomes difficult.
4. If swallowed, give 3–4 glasses of water, but do not induce vomiting unless directed to do so by a physician. Do not give anything by mouth to an unconscious or convulsing person. SEEK 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.

DISCLAIMER

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