

Senershield™-R

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

Primary 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 10.2cm or 22.9cm SHEATHING FABRIC or SENERFLASH 4 or 9.

Packaging

27.2kg per 19 litre unit
 10.2cm Sheathing Fabric: 101.5mm x 54.8m roll
 22.9cm Sheathing Fabric: 228.5mm x 54.8m roll

Coverage

Approximate coverage rates over each approved substrate are based on 2.5mm (wet) per coat:

Dens-Glass Gold: 35.3–46.1m² per unit (1 coat)
 Exterior Gypsum: 46.1–53.3m² per unit (1 coat)
 OSB: 23–32.2m² per unit (2 coats)
 Cement Board: 36.9–46.1m² per unit (1 coat)
 Plywood: 23–32.2m² per unit (2 coats)

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



The Chemical Company

Senershield™-R

Mixing

- 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.
- 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 470ml.
- 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 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 6.4mm in 3m. Unsatisfactory conditions shall be reported to the general contractor and corrected before application of the Senergy Wall Systems.
- 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.

- Spot all fasteners and precoat sheathing joints, terminations, inside and outside corners with mixed SENERSHIELD-R using a 101mm wide by 20mm nap roller or brush.
 - 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 63.5mm minimum at intersections.
 - c. Allow to dry to the touch before applying SENERSHIELD-R to entire wall surface.
 - a. Apply SENERSHIELD-R to plywood or OSB substrate(s) with a 20mm nap roller to a uniform consistent thickness of a nominal 2.5mm wet. 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 20mm nap roller to a uniform consistent thickness of normal 2.5mm wet that is free of voids and pinholes.

Note: A minimum of two (2) 2.5mm wet coats of Senershield-R is required over OSB and plywood.
- Allow typically 8-10 hours to dry prior to applying a Senergy Base Coat/Adhesive and insulation board.



The Chemical Company

Senersshield™-R

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 surfaces.
- Limit the exposure of SENERSHIELD-R to the weather. The maximum recommended exposure period is 30 days.
- 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.
- 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 EPS 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.

Senershield™-R

Health and Safety

Caution

Contains crystalline silica.

Precautions

Avoid getting in eyes, on skin, or on clothing. Avoid breathing vapours 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.

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.

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 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.

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Note:

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

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 for additional information about products and systems and for updated literature.

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