

PRODUCT DATA SHEET

Finestop RS

Vapor Permeable Air/Water-Resistive Barrier Membrane

COLOR

Light grey

PACKAGING

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

COVERAGE PER PAIL

ASTM C1177 Type Sheathing

525 ft² (48 m²) at 12 mils WFT

Cement Board

575 ft² (53 m²) at 12 mils WFT

Plywood

295 ft² (27 m²) at 24 mils WFT

Oriented Strand Board (OSB)

295 ft² (27 m²) at 24 mils WFT

Concrete Masonry Units (CMU)

Standard Weight 265 ft² (24 m²) at 24 mils WFT

Medium Weight 180 ft² (17 m²) at 24 mils WFT

Light Weight 125 ft² (12 m²) at 24 mils WFT

Poured Concrete

575 ft² (46 m²) at 12 mils WFT

Embed Sheathing Fabric

SikaWall-75 Sheathing Fabric 4

630 ft (192 m) per pail

SikaWall-75 Sheathing Fabric 6

420 ft (128 m) per pail

SikaWall-75 Sheathing Fabric 9

280 ft (85 m) per pail

*Roll or spray / backroll for optimum coverage rate. Other application methods may provide less coverage. Actual results may vary depending on surface porosity, roughness, moisture uptakes, type of OSB or other factors

VOC

0.10 lbs/gal (or 12 g/l less) water and exempt solvents.

SHELF LIFE

Two (2) years, properly stored in original containers

DESCRIPTION

Finestop RS is a one-component, fluid-applied vapor permeable vertical above grade air/water-resistive barrier with built in low temperature application properties. This resilient waterproof coating can be applied directly to approved, above-grade wall substrates by sprayer, roller, brush or trowel. It provides excellent secondary moisture protection behind most wall claddings including EIFS, stucco*, brick, siding and metal panels. Finestop RS is listed in ICC Evaluation Report ICC ESR-2986.

*A slipsheet is required for stucco claddings

USES

For use over the following exterior wall substrates:

Poured concrete/unit masonry; ASTM C1177 type sheathings, including DensGlass™ or DensElement exterior sheathing (sheathing only), eXP™ sheathing, GlasRoc® sheathing, Securock™ glass-mat sheathing, Weather Defense™ Platinum sheathing, GreenGlass® sheathing; cement-boards (ASTM C1325 Type A Exterior) including PermaBase™ cement-board: untreated Exposure I or exterior plywood sheathing (grade C-D or better), untreated Exposure I OSB, Zip Sheathing (sheathing only); Fire Treated wood sheathing: Pyro-Guard® and Dricon® plywood and FlameBlock® OSB; gypsum sheathing (ASTM C79/ASTM C1396).

ADVANTAGES

One continuous air/water-resistive barrier for buildings with multiple claddings (can be used with most code-compliant claddings).

Can be used with most code-compliant claddings. Meets ASTM D1970 nail sealability requirements with and without Sheathing Fabric.

One component, easy to apply formulation that meets low VOC requirements in all 50 states.

Nonflammable as applied.

Will not dry out or crack due to loss of oil/plasticizer over time.

Cleans up with water; solvents and citrus based cleaners not required.

Rugged membrane resists damage after installation.

Low temperature performance down to 25°F (-4°C).

Allows for flexible construction scheduling with an 180 day outdoor exposure rating (30 days if used as part of an adhesively attached wall system).

TEST RESULTS

TEST	METHOD	CRITERIA	RESULT
VOC content	ASTM D3960 (based in part on EPS method 24)	Report value	0.10 lbs/gal or 12 g/l less water and exempt solvents
Air Leakage of Air Barrier Assemblies	ASTM E2357	0.04 cfm/ft ² @ 1.57 psf (0.2 l/(s.m ²) @ 75 Pa)	0.0001 cfm/ft ² @ 1.57 psf (0.0007 l/s.m ²) @ 75 Pa) positive/post conditioning 0.0003 cfm/ft ² @ 1.57 psf (0.0014 l/s.m ² @ 75 Pa) negative/post conditioning
Air Permeance of Building Materials	ASTM E2178	0.004 cfm/ft ² @ 1.57 psf (0.02 l/(s.m ²) @ 75 Pa)	0.00098 cfm/ft ² @ 1.57 psf (0.0049 l/s.m ² @ 75 Pa)
Rate of Air Leakage	ASTM E283	Report value	0.0037 cfm/ft ² @ 1.57 psf (0.0185 l/s.m ² @ 75 Pa)
Water Vapor Transmission	ASTM E96 Method B	Report value	18 perms (grains/Hr. in Hg. ft ²) @ 12 mils wet film thickness 14 perms (grains/Hr. in Hg. ft ²) @ 24 mils wet film thickness
Pull-Off Strength of Coatings	ASTM D4541	Min.15.9 psi (110 kPa) or substrate failure	Pass - Tested over exterior gypsum sheathing, ASTM C1177 glass-mat sheathing, cement board, OSB, plywood; pvc and galvanized flashing
Nail Sealability (without Sheathing Fabric)	ASTM D1970	No water penetration at galvanized roofing nail penetration under 5" 9127 mm) head of water after 3 days at 40° F (4° C)	Pass
Surface Burning	ASTM E84	Flame Spread < 25 Smoke Development < 450	Meets Class A: Flame spread = 15 Smoke developed = 95
Radiant Heat Multi-Story Tests	NFPA 268 NFPA 285	No increase in fire hazard	Pass using many wall designs; including LaHabra EIFS cladding with 12" EPS insulation Reference Technical Data Sheet NFPA 285 Compliant Wall Systems and Assemblies
Water-resistive barrier coatings used under EIFS	ASTM E2570		Pass (Meets all criteria in the standard)
Compound Stability (Elevated Temperature)	ASTM D5147 Section 15		No flowing, dripping, or drop formation up to 350 °F (177 °C)
Fire Resistance	ASTM E119/UL 263	Maintain fire resistance of existing rated assembly	Will not add or detract from the rating of a fire resistive wall assembly
Drainage Efficiency	ASTM E 2273	90% Minimum	99%
% Solids	Lab method	Report value	73%

ICC-ES AC 212 Acceptance Criteria for Water-Resistive Coatings used as Water-Resistive Barriers over Exterior Sheathing

TEST	METHOD	CRITERIA	RESULTS
Sequential Testing:			
1. Structural	1. ASTM E 1233 Procedure A	No cracking at joints or interface of flashing	Pass - Tested over OSB and gypsum sheathing
2. Racking	2. ASTM E 72		
3. Restrained Environmental Conditioning	3. ICC-ES AC-212	No water penetration after 15 min @ 2.86 psf (137 Pa)	No water penetration after 90 min @ 6.24 psf (299 Pa)
4. Water Penetration	4. ASTM E 331		
Sequential Testing - Weathering			
1. UV Light Exposure	1. ICC-ES AC-212	No cracking or bond failure to substrate	Pass
2. Accelerated Aging	2. ICC-ES AC-212		
3. Hydrostatic Pressure Test	3. AATCC 127-1985	No water penetration after 21.7 in (550 mm) water for 5 hours	
Freeze-Thaw	ASTM E 2485 (Method B)	No sign of deleterious effects after 10 cycles	Pass - Tested over exterior gypsum sheathing, ASTM C1177 glass-mat sheathing, cement board, OSB, plywood
Water Resistance	ASTM D2247	No deleterious effects after 14-day exposure	Pass - Tested over exterior gypsum sheathing, ASTM C1177 glass-mat sheathing, cement board, OSB, plywood
Tensile Bond	ASTM C 297	Minimum 15 psi (103 kPa)	Pass - Tested over exterior gypsum sheathing, ASTM C1177 glass-mat sheathing, cement board, OSB, plywood, CMU; pvc and galvanized flashing
Tensile Bond (after freeze-thaw)	ASTM C 297	Minimum 15 psi (103 kPa) avg; no failure after 10 cycles freeze-thaw	Pass (Tested over various substrates)

ICC-ES AC 148 Acceptance Criteria for Flexible Flashing Materials

TEST	METHOD	CRITERIA	RESULTS
Sequential Testing - Weathering			
1. UV Light Exposure	1. ICC-ES AC 148	No cracking or bond failure to substrate	Pass
2. Accelerated Aging	2. ICC-ES AC 148	No water penetration after 21.7 in (550 mm) water for 5 hours	
3. Hydrostatic Pressure Test	3. AATCC 127-1985		
Peel Adhesion	ASTM D 3330 Method F	After UV Exposure After Accelerated Aging After Elevated Temperature Exposure After Water Immersion	Pass - tested over ASTM C1177 glass-mat sheathing, OSB, plywood, PVC and uncoated aluminum
Nail Sealability after Thermal Cycling	ASTM D 1970 (Modified), AAMA 711	No water penetration at galvanized roofing nail penetration under 1.2" (31 mm) head of water after 24 hours at 40°F (4°C)	Pass
Tensile Strength after UV Exposure	ASTM D 5034, AAMA 711	Minimum 20 lbs./in (3.5 N/mm)	Pass
Cold Temperature Pliability	ASTM D 1970, AAMA 711	No cracking after bending around a 1" (25 mm) mandrel after 2-hour exposure to 0°F (-18°C)	Pass
Resistance to Peeling	AAMA 711	No signs of distress or failure after 24 hours of exposure at room temperature, 122°F (50°C), 149°F (65°C), 176°F (80°C)	Pass

PRODUCT CONSIDERATIONS AND JOB CONDITIONS

- Expect extended dry time for cold temperature application less than 40°F (4°C) down to 25°F (-4°C). Final air/water-resistive properties and film durability rely on temperatures rising above freezing (32°F/0°C).
- Walls shall be capped to prevent moisture and precipitation from entering wall during construction.
- Dry/cure times of adhesively applied EPS insulation board installed over Finestop RS may be prolonged, particularly in cool and/or damp weather. Non-cementitious adhesives are not recommended for EPS insulation board attachment to Finestop RS. Proper application is the responsibility of the user.
- A minimum of two (2) 12 mil wet coats of Finestop RS is required over OSB, plywood and CMU. Finestop RS may be sprayed to a 24-mil thickness over OSB and plywood in one wet application. Backrolling may be needed to produce a pinhole-free film.
- Punched studs in rough openings must be treated with SikaWall® Flash Seal NP flashing membrane.
- Ensure all fastener are spotted with Finestop RS or SikaWall MaxFlash.
- Prior to application of claddings, visually inspect the Finestop RS for voids, pinholes, surface deficiencies, etc. Repair deficiencies and areas that are not intact. Apply additional Finestop RS as necessary such that the barrier is free of voids, pinholes, etc. All sheathing joints, terminations, inside and outside corners must be reinforced with SikaWall Sheathing Fabric embedded in Finestop RS; MaxFlash or Flash Seal NP.
- Treat expansion joints with Flash Seal NP to provide sufficient slack in Flash Seal NP at joint to allow for movement.

SURFACE PREPARATION

- An acceptable substrate (see list above) should be used and installed per substrate manufacturer's instructions and local code requirements.
- Substrate shall be dry, clean, sound and free of release agents, paint/coatings, other residue or other deleterious conditions before application of cladding. Verify substrate is flat, free of fins or planar irregularities greater than ¼" in 10' (96.4 mm in 3 m). Unsatisfactory conditions shall be reported to the general contractor and corrected before application of Finestop RS and claddings.

EQUIPMENT

- Airless spray equipment capable of spraying a minimum of 1 gallon per minute with a minimum size reversible tip of 0.019 is required. Airless equipment capable of greater deliveries can use larger tips. Tip sizes of 0.021 to 0.025 are recommended. Tip sizes greater than 0.025 provide too much material and effect the overall consumption of the material affecting the coverage rates. If pump filters are used, minimum size of filter recommended is a 60-mesh filter. For additional information reference Spay Application Technical Bulletin.
- When spraying over plywood and OSB, back rolling is recommended to completely encapsulate and create a pinhole free application.
- For roller application, use a ½" (13 mm) nap roller.

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 Finestop RS with a clean, rust-free paddle and drill until thoroughly blended. Dilution of Finestop RS is not recommended.
3. Additives are not permitted.
4. Close container when not in use.
5. Clean tools and equipment with water immediately after use. Dried material can only be removed mechanically.

APPLICATION

FLASHING ROUGH OPENINGS

Using MaxFlash

1. Apply a bead of MaxFlash in each corner of the rough opening, ensuring that corners are fully sealed. Where wood bucks are used, apply a bead of MaxFlash into gaps between bucks and between the buck and building structure.
2. Apply additional MaxFlash in a zigzag pattern onto head, sill, jambs and exterior substrate. Spread MaxFlash evenly across the rough opening to form a uniform, continuous, void and pinhole-free membrane with a 12-20 mil thickness. Extend MaxFlash membrane minimum 4" onto the exterior wall, maintaining 12-20 mil thickness.
3. Extend MaxFlash at a minimum 4" onto the exterior wall, maintaining 12-20 mil thickness.
4. Allow MaxFlash to skin before applying Finestop RS to sheathing. Lap the air/water-resistive barrier a minimum of 2" onto MaxFlash, creating a continuous, monolithic air/water-resistive barrier membrane.
5. Allow MaxFlash to cure prior to the installation of windows, doors and other wall assemblies.

Using Sheathing Fabric

1. Cut Sheathing Fabric to desired size. Apply a generous amount of mixed Finestop RS receiving coat across rough opening and out onto the substrate. Immediately embed Sheathing Fabric, and ensure complete saturation. An additional coat of Finestop RS may be necessary to ensure a complete, void-free membrane.
2. Extend Sheathing Fabric a minimum 2" onto the exterior wall. Reference Finestop RS published details for step by step application details.

SHEATHING JOINT REINFORCEMENT

Using MaxFlash

Apply a thick bead of MaxFlash to sheathing joints, inside and outside corners as well as knot holes and check cracks that may exist in plywood or OSB. Spread evenly a minimum of 1" beyond

the joint on either side, maintaining 20-mils across the sheathing joint. Allow MaxFlash to skin before applying Finestop RS to sheathing. See the MaxFlash product bulletin for coverages and additional product highlights.

Note: MaxFlash can be used to treat sheathing joints up to ½" wide, not for use in expansion joints.

Using Sheathing Fabric

1. Precoat sheathing joints, inside and outside corners as well as knot holes and check cracks that may exist in plywood or OSB with mixed Finestop RS.
2. Immediately place and center Sheathing Fabric over wet Finestop RS. Ensure Sheathing Fabric extends evenly on both sides of the sheathing joint. Completely saturate Sheathing Fabric with Finestop RS.
3. Lap Sheathing Fabric 2½" (63.5 mm) minimum at intersections.
4. If using roller or brush application, allow to dry to the touch before applying Finestop RS to entire wall surface. If spraying, "wet on wet" application is acceptable.

Note: Sheathing Fabric can be used to fill sheathing joints up to ¼" wide, not for use in expansion joints.

FINESTOP RS APPLICATION OVER ACCEPTABLE SUBSTRATES

For concrete, glass-mat sheathing (C1177), cement board (ASTM C1325 Type A Exterior), and gypsum sheathing (ASTM C79/ ASTM C1396); apply with airless spray equipment, or roller, or brush to a consistent, minimum 12 wet mil thickness that is free of voids and pin holes. If rolling, a fully loaded roller pad is required to obtain a consistent, minimum 12 wet mil thickness.

For plywood, OSB or CMU substrate(s); apply with airless spray equipment or ½" (13 mm) nap roller a consistent, minimum 12 wet mil thickness. Prior to application of the 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.

Note: A minimum of two (2) 12-mil wet coats of Finestop RS is required over OSB, plywood and CMU.

Applying with airless spray equipment, Finestop RS may be sprayed to a 24-mil thickness over OSB and plywood in one wet application. Backrolling may be needed to produce a pinhole-free film.

Note: Refer to Spray Application technical bulletin for spray application equipment and application instructions. When spraying keep the spray gun as close to 90° angle to the substrate as possible. Overlap spray patterns to ensure uniform coverage, free from pinholes. Verify thickness using a wet film mil gauge.

Cold temperature application less than 40°F (4°C) down to 25°F (-4°C)

- Precondition material to a minimum 65°F (18°C).
- Substrate and ambient temperature must be 25°F (-4°C) and rising. Do not apply if temperature below 25°F (-4°C) is expected at any time during the application or drying period. Substrate surface must be frost free and remain dry.
- Install material in dry weather and protect from rain and temperatures below 25°F (-4°C) for a minimum of 24 hours and until dry. Actual drying time will vary depending on ambient and substrate temperature, humidity and the ability of the substrate to absorb water. Final air/water-resistive properties and film durability rely on temperatures rising above freezing (32°F/0°C).

DRYING TIME

- 40°F (4°C) and rising: allow to dry completely, typically 2-10 hours before proceeding with cladding installation. 40°F (4°C) down to 25°F (-4°C): when applied at a 12-mil wet film thickness, typically dry in approximately 12 hours at 32°F (0°C) and 50% relative humidity (RH).
- When applied at a 24-mil thickness (single pass spray), typically dry in approximately 18 hours at 32°F (0°C) and 50% (RH). Allow to dry completely prior to proceeding with cladding installation.

Note: Actual drying time will vary depending on ambient and substrate temperature, humidity and the ability of the substrate to absorb water. Final air/water-resistive properties and film durability rely on temperatures rising above freezing (32°F/0°C).

SHIPPING & STORAGE

- Protect materials during transportation to avoid physical damage. Store in a cool, dry place protected from freezing, extreme heat and direct sun. Store at no less than 40°F (4°C) and below 120°F (49°C). Protect from extreme heat and direct sun.
- Do not stack pallets.

LIMITATIONS

- Limit the weather exposure of Finestop RS to a maximum of 180 days. When applied under adhesively attached LaHabra EIFS systems, rigid insulation board must be installed within 30 days of Finestop RS application. If exposure limits are exceeded, clean and recoat with Finestop RS.
- Do not use on damp surfaces, below-grade applications or on surfaces subject to water immersion.
- Do not apply in ambient temperatures below 25°F (-4°C) or onto substrates below 25°F (-4°C). Do not apply in ambient temperature above 100°F (38°C) or surface temperature above 120°F (49°C).
- Ensure wood sheathings and lumber, including fire and pressure treated, are dry throughout the thickness of the material and free of any bond inhibiting materials prior to application of Finestop RS.
- Finestop RS is designed as a positive side water barrier and does not function as a negative side barrier product.

TECHNICAL SUPPORT

Consult Sika Facades Technical Services Department at **+1 (800) 589-1336** for specific recommendations concerning all other applications. Consult the Sika Facades website at usa.sika.com/lahabra, for additional information about products and systems and for updated literature.

HEALTH, SAFETY AND ENVIRONMENTAL

Read, understand and follow all Safety Data Sheets and product label information for this product prior to use. The SDS can be obtained by visiting usa.sika.com/lahabra, e-mailing your request to mbsbscst@mbcc-group.com or calling **+1 (800) 433- 9517**. Use only as directed.

IN CASE OF EMERGENCY: Call CHEMTEL +1 (800) 255-3924 or if outside the US or Canada, +1 (813) 248-0585.

LIMITED WARRANTY NOTICE

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates (“SIKA”), the user must always read and follow the warnings and instructions on the product’s most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com/lahabra or by calling our Technical Service Department at **+1 (800) 589-1336**.

Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product’s shelf life. User determines suitability of product for intended use and assumes all risks. User’s and/or buyer’s sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs.

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