STORM BREAKER™

PRODUCTS AND APPLICATION GUIDE



BITEC®

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Coating Features and Benefits

BITEC, Inc. manufactures a variety of coatings designed to restore aged roof systems. Storm Breaker Coating Systems are seamless, roller-, brush-, or spray-applied systems that conform to virtually any roof configuration while providing lightweight waterproofing protection for the building.

This technology offers longer roof service life expectancy, as well as a sustainable, high performance, lower life-cycle cost alternative to re-roofing.

Storm Breaker High-Build (HB) 100% Silicone Roof Coating

Our most popular restoration coating system, BITEC's Storm Breaker HB Silicone Roof Coating System is known for its ease of application and workability, achieving the desired dry film thickness (DFT) typically in a single coat. Storm Breaker HB Silicone is formulated with a proprietary balance of silicone/siloxanes and minerals to maximize its physical properties and yield a high-solid silicone that provides a greater tensile strength than most other sprayable high-solid silicones. Storm Breaker HB Silicone is a moisture-cured coating that contains less than 50 g/L VOC content, making it ideal where air quality regulations and interior fume sensitivity are highest. Storm Breaker HB Silicone Coating Systems provide excellent defense against random ponding water (i.e. water that evaporates within 48 hours after precipitation) on low slope roof systems (1/2:12 or less) and can also be applied on higher slope slopes ranging from 1/2 to 6:12. Please note that on higher slopes (greater than 3:12) the surface of silicone coatings may become slippery in the presence of moisture, making walkability a safety concern. As coating may flow on slopes greater than 3:12, a second application may be necessary to achieve the desired thickness. Likewise, where aesthetics and visibility are a consideration, silicone coatings may have a propensity to attract and retain dust and airborne particulate matter more than other coating types, such as acrylic or SEBS.

Storm Breaker Acrylic Roof Coating

BITEC's Acrylic Roof Coating System is available in two grades: Contractor and Premium. Premium Grade is formulated to offer a higher solids content, which will result in an equivalent material yield at a reduced application rate as compared to Contractor Grade. Storm Breaker Acrylic Roof Coating Systems consist of a base- and top-coat application. The same grade, Contractor or Premium, may be used for both coats, or a base coat of Contractor Grade may be followed by a topcoat of Premium Grade. Consider using Contractor Grade on projects that may have more limited budget considerations or lesser warranty coverage expectations. Refer to the BITEC Storm Breaker Coating Matrix for further guidelines and exact coverage periods offered.

Storm Breaker Acrylic Roof Coating Systems are an excellent choice for steep slope applications. Common to most acrylic coatings on the market, Storm Breaker Acrylic Roof Coating is a water-based coating. While resistant to random ponding water (i.e. water that evaporates within 48 hours after precipitation), the performance of acrylic coatings may be diminished by exposure to longer-lasting ponding water conditions. For low slope applications, less than ½:12, special consideration should be given to eliminate or mitigate ponding water on the roof surface prior to installation of an acrylic roof coating.

Coating Features and Benefits

Storm Breaker SEBS Rubberized Roof Coating

Storm Breaker SEBS Rubberized Roof Coating provides superior elongation and tensile strength, making it ideal for substrates where the potential for mechanical stress is highest. SEBS is highly resistant to ponding water and harsh UV radiation, preventing the chemical breakdown that causes cracking or peeling. It cures into a seamless, highly reflective white barrier that repels solar heat, significantly lowering building cooling costs. Easy to apply by spray or roller, it bonds aggressively to metal, modified bitumen, and concrete, extending roof life while maintaining flexibility across brutal temperature swings.

Storm Breaker Urethane Roof Coating

For any roofing or coating project, BITEC always calls for proper drainage design and protection of commonly trafficked areas, such as rooftop access points, walkways, and serviced rooftop equipment. However, where existing building features may inhibit ideal rooftop conditions, Storm Breaker Urethane Roof Coating is considered our most durable coating for demanding environments. Storm Breaker Urethane Roof Coating creates a seamless, flexible membrane that excels on high-traffic roofs. It features exceptional tensile strength and chemical resistance, allowing it to withstand ponding water, hail impact, and thermal expansion while minimizing damage. When applied as a bright white topcoat, it reflects significant solar radiation to cut building energy costs. It bonds tenaciously to concrete, metal, and modified bitumen, offering a rugged, puncture-resistant shield that dramatically extends the lifespan of challenging commercial roof systems.

Equipment Considerations

Storm Breaker Coatings may be applied with soft brushes, medium nap rollers and/or high-pressure airless spray equipment. The appropriate choice of application method may depend on several factors, including substrate, budget, roof area, detailing, clean-up, and surroundings.

- Substrate – Better application efficiency may be achieved over rough substrates, such as granule surfaced modified bitumen, or substrates that have a pronounced profile, such as metal roof systems, by using a spray rig to apply the BITEC coating/restoration system.
- Budget – Where budget is limited, the cost of investment in spray equipment may be prohibitive for some installers. Fortunately, Storm Breaker Coatings can be easily applied using commonly available nap rollers and brushes; consumable items that may be easily factored into the cost of the project installation.
- Roof Area and Detailing – For smaller size projects, or where there may be numerous rooftop penetrations throughout the area, working with a spray equipment may be encumbered. In such confined areas, it may be desirable to consider roller and/or brush application.
- Clean-up and surroundings - Spray equipment will naturally require daily maintenance and clean-up, which add to cost considerations. Our acrylic coating system can be cleaned using water. Other types, such as HB Silicone, will require Varnish Makers & Painters (VM&P) Naphtha or mineral spirits. Likewise, special precautions must be taken when working with spray equipment where areas surrounding the project site may present additional concerns for overspray (such as parking lots, etc.).

For HB Silicone, BITEC recommends a high-pressure airless sprayer capable of producing a minimum of 3,500 psi at the spray gun head. The pump should have a minimum of 3 gallons per minute (11.4 liters per minute) output rate. Hoses should be BUNA-N jacketed for prevention of moisture contamination. Hoses should have a minimum interior diameter (I.D.) of 3/4” (19 mm). The spray gun should be high pressure (5,000 psi) with a reverse-a-clean spray tip having a minimum orifice of 0.030 and a 50° fan tip.

For airless spray application of Storm Breaker Acrylic Roof Coating (Premium or Contractor Grade), BITEC recommends equipment capable of 2,000 to 3,000 psi.

For SEBS Rubberized Coating, when possible, best results can be obtained with airless spray equipment. BITEC recommends a tip size of 0.025” (0.6 mm), fluid pressure of 3,000 psi, and a fluid hose size between 3/8” to 1/2” (9.5 mm to 12.7 mm).

Contact BITEC for specific recommendations when bidding projects where Urethane Coating may be spray-applied.

Substrate Qualification

An adhesion test must be completed prior to specification of Storm Breaker Acrylic, SEBS Rubberized, HB Silicone, and Urethane Roof Coatings to ensure an adequate bond to the roof substrate(s) and to qualify for a BITEC warranty. Eligible coating/restoration substrates include:

- Modified Bitumen: Smooth and Granule Surfaced *SBS and APP*
- Single Ply Membranes: *EPDM, PVC, and TPO*
- Metal Roofing: *Standing Seam, Exposed Fastener, Concealed Fastener, Coated, and Non-coated*

Always refer to BITEC specifications and/or the BITEC Warranty Coverage Matrix for warranty requirements and contact BITEC Technical Services to discuss qualification guidelines for substrates not listed above.

A minimum of two adhesion tests in the field of the existing roof is required. An additional adhesion test is required within every additional 20,000 ft^2 (1,858 m^2) roof section. Additional tests are also required on any areas that are more worn than the surrounding roof, where any change in roof membrane substrate exists, or where there is any indication that ponding water has accumulated.

Necessary equipment:



- Applicator brush
- Razor knife
- Quart of coating
- 1” x 10” (2.5 cm x 25.4 cm) strips of polyester
- Hand-held scale
- Tape measure
- Quart can opener
- Paperclip (if necessary)

Step 1: For each test location, use a non-filming detergent such as trisodium phosphate (TSP) or TSP substitute (e.g. Simple Green) and water to clean an area that is at least 6” x 12” (15.2 cm x 30.5 cm). Use a stiff bristle brush to scrub the test areas clean. Rinse well with clean water to ensure the surface is free of all contaminants, detergent or anything that could affect adhesion. Wipe area with a clean rag and dry completely.

Step 2: A primer may be required for some roof surfaces (see primer requirements in design specifications). For all primer applications, apply product at the required coverage rate and allow to cure/dry thoroughly before applying desired coating.



Step 3: Ensure the roof surface is moisture free. Apply the first layer of coating directly over the primer, if testing with primer, or over the cleaned, dry roof area if testing directly on the membrane. Immediately embed two 1" x 10" (2.5 cm x 25.4 cm) strips of polyester fabric into the wet coating. Allow 4" (10.2 cm) of fabric to extend beyond the coating. After embedding the fabric, apply a second coat directly over the fabric to completely cover it. Do not coat the 4" fabric tail that will be used to pull the coated section after cure. (Tip: Dab the very end of the uncoated fabric tail in coating and adhere to roof to prevent the wind from blowing it into the wet coating.)

Step 4: Allow the test areas to cure as long as possible, a minimum of 72 hours, before checking adhesion. Depending on the weather conditions and material composition, cure times can vary considerably. Be sure to keep this in mind when performing this test in order to get the most accurate results. Try to avoid performing adhesion testing with any precipitation in the forecast.



Step 5: Attach polyester fabric to the hand-held scale and pull upward at a 90-degree angle (i.e. perpendicular to the plane of the roof) to observe the peel strength indicated on the scale and record for the project file records. Results must be 2 pounds or greater per inch width (0.36 kg / cm) of fabric width for acceptable adhesion to the substrate.

Examples:
1" fabric x 2 lbs = 2 lbs resistance required for passing result
2" fabric x 2 lbs = 4 lbs resistance required for passing result
3" fabric x 2 lbs = 6 lbs resistance required for passing result

Warranty Eligibility Policy

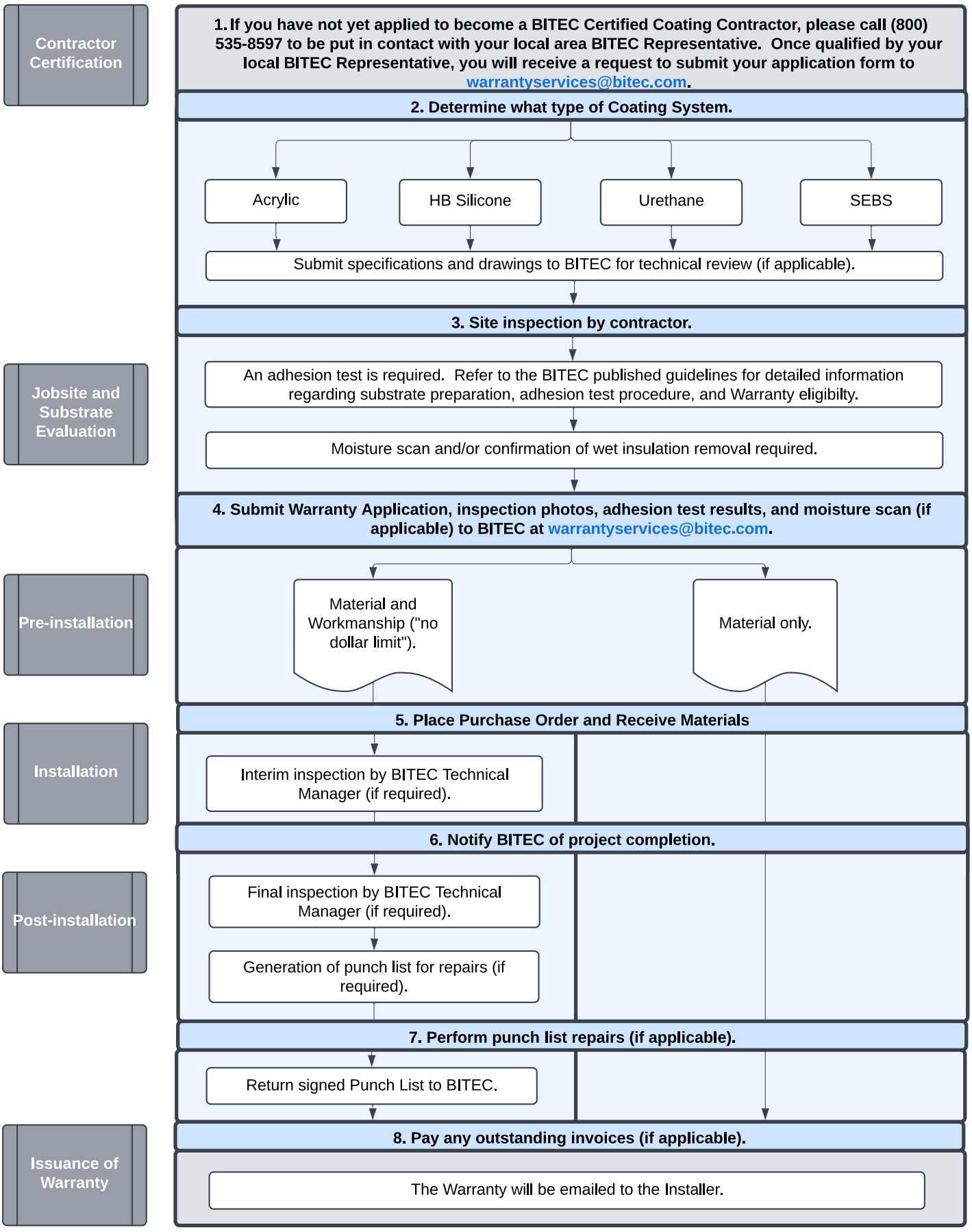
Any project that may require a Warranty must be installed by a BITEC Certified Coating Contractor. Identification and removal of any existing insulation or roofing that contains moisture is required and is the responsibility of the installing contractor. An infrared or thermonuclear moisture scan is recommended and may be required for certain projects. Prior to job start, please submit a complete report to BITEC with roof cut verification of any suspected wet areas, location of areas removed and the procedures to repair such areas.

Warranties must be applied for prior to project start by sending the following information to warrantyservices@bitec.com.

- BITEC Warranty Application Form
- Site photos, including an overview of the complete roof area(s), as well as all detail conditions, and any areas of concern, such as ponding water.
- Results of the adhesion test(s)
- Moisture scan and/or confirmation of wet areas that will be removed

Warranty eligibility is ultimately determined by the finished, cured dry film thickness (DFT). Wet film thickness (WFT) is offered within this guide as an approximate recommendation. It is the contractor's responsibility to ensure that application rates are sufficient to meet the specified dry film thickness (DFT).

The flowchart on the following page has been provided as a guideline to walk contractors through the various stages of project administration from initial registration as a BITEC Certified Coating Contractor through the design, bidding, installation, and post-installation phases of the project.


Contractor Certification
1. If you have not yet applied to become a BITEC Certified Coating Contractor, please call (800) 535-8597 to be put in contact with your local area BITEC Representative. Once qualified by your local BITEC Representative, you will receive a request to submit your application form to warrantyservices@bitec.com.
2. Determine what type of Coating System.
Acrylic
HB Silicone
Urethane
SEBS
Submit specifications and drawings to BITEC for technical review (if applicable).
Jobsite and Substrate Evaluation
3. Site inspection by contractor.
An adhesion test is required. Refer to the BITEC published guidelines for detailed information regarding substrate preparation, adhesion test procedure, and Warranty eligibilty.
Moisture scan and/or confirmation of wet insulation removal required.
Pre-installation
4. Submit Warranty Application, inspection photos, adhesion test results, and moisture scan (if applicable) to BITEC at warrantyservices@bitec.com.
Material and Workmanship ("no dollar limit").
Material only.
Installation
5. Place Purchase Order and Receive Materials
Interim inspection by BITEC Technical Manager (if required).
Post-installation
6. Notify BITEC of project completion.
Final inspection by BITEC Technical Manager (if required).
Generation of punch list for repairs (if required).
7. Perform punch list repairs (if applicable).
Return signed Punch List to BITEC.
Issuance of Warranty
8. Pay any outstanding invoices (if applicable).
The Warranty will be emailed to the Installer.

General Preparation Guidelines

Substrate Preparation: Ensure that surfaces are clean and free of moisture, dirt, debris, or contamination. Bring any substandard roofing conditions or equipment to the attention of the Owner or the Owner's representative.

Weather Restrictions: Apply coating when ambient temperatures are at 40ºF (5ºC) and rising. Do not apply coating when weather conditions may prevent the coating from properly curing. Allow an appropriate amount of time for curing prior to precipitation and freezing temperatures.

Drainage Considerations: Carefully examine the area to receive the specified coating. Report any areas where ponding water may potentially accumulate to the Owner or design authority. Install tapered insulation/crickets, additional drainage outlets, or GreenSlope fill material as appropriate to meet BITEC warranty requirements and remediate low-lying areas on roof surfaces that may contribute to ponding water conditions. Discuss with the Owner and/or designated design authority the installation of crickets, extension of condensation lines from HVAC units, installation of a drainage outlet or other means to alleviate ponding where the GreenSlope particulate mitigation system is not practicable. Consult with the Owner or their representative to confirm approval for any change order requests that may increase the cost of the agreed upon installation price to remediate ponding water.

Protection of Surrounding Areas: Protect exterior walls, sidewalks, balconies, amenity spaces and other building features from drippage. For spray applications, protect surrounding areas from overspray.

Polyurethane Foam: Allow newly applied polyurethane foam to fully cure. Do not allow polyurethane foam surfaces to remain exposed long enough that UV degradation begins to occur (generally 24 hours or less after full cure).

Removal of Wet Insulation and Membrane: Cut and remove any areas where wet insulation and/or membrane plies are encountered. Remove wet materials down to the structural deck and inspect for corrosion/water damage. Notify the Owner or the Owner's representative of any damage immediately. Replace the wet areas with compatible materials, attached according to current industry standard practices, bringing the cut-out area back level with surrounding surfaces. Patch around the cuts with a minimum 12-inch (30.5 cm) strip of compatible roof membrane, fully adhered with the leading edges treated with a three-course application of the appropriate BITEC flashing compound and fabric.

Equipment: Air conditioning units, blowers and evaporative coolers shall be disconnected or otherwise modified to prevent contaminating the roof surfaces with water or condensation and to prevent solvent fumes from entering the building.

Gutters: At gutters, prepare the substrate according to BITEC's guidelines and apply the appropriate BITEC flashing compound in a two-coat application. Strip any seams in the gutter with a three-course application of compound/fabric/compound.

Coating Application: Apply the BITEC Storm Breaker coating system using a sprayer, brush, or nap roller to create a seamless, even thickness of roof coating without allowing the coating to pool in low-lying areas. Apply the coating at a rate to provide a wet and dry mil thickness as required by BITEC to qualify for the requested warranty period.

Protection of High Traffic Areas: For HB Silicone and Acrylic coating systems, target areas where heavy foot traffic is anticipated, such as access points, walkways, and serviceable equipment with a supplemental application of the specified BITEC Storm Breaker Silicone Walkway Coating and Walkway Granules. BITEC TrafGuard protection pads are another option for any BITEC Storm Breaker Coating System.

Single Ply and Bituminous/Asphaltic Membrane Systems



Cleaning of the Existing Roof Membrane System: Pressure wash the existing roof membrane with clean water having a minimum working pressure of 1,500 psi to remove all dirt, dust, delaminating paints/coatings and/or contaminants including oil, oil-based roof cements, solvents, grease, and/or animal fats. Take care to monitor the roof membrane and adjust the water pressure to ensure that it is not creating granule loss or damaging the roof membrane during cleaning. Use a rotary spray tip and/or cleaner/degreaser to improve cleaning in difficult areas. Broom, scrub, and/or vacuum the surface as necessary. Completely remove all existing silicone-based sealants from the roof substrate prior to application of the BITEC Storm Breaker coating system. Allow the roof to dry thoroughly.

Treatment of Open Laps: Repair any open laps or punctures in the existing roof by patching and/or resealing the membrane with compatible materials. Replace sections of membrane where severe surface erosion has exposed the fibers of the reinforcing carrier. Where open laps have been repaired, apply a three-course patch using the appropriate BITEC flashing compound and reinforcing fabric.

Treatment of Residual Asphalt (as necessary): Remove any existing asphalt residue or asphaltic roofing components using scrapers, wire brushes, power wire-wheels, or other similar tools. Treat any exposed asphalt that cannot be removed using the coating manufacturer's bleed blocker.



Horizontal and Vertical Seams: Coat all horizontal and vertical seams with the BITEC Storm Breaker coating 4-inches (10.2 cm) wide, centered over the seam, back-brushed or rolled into the seam at a minimum film thickness as specified by BITEC, to be completely filled and free of voids or surface irregularities. See the Coating Warranty Matrix and Specification Sheets for specific WFT and DFT guidelines.

Flashing details: Apply the appropriate BITEC flashing compound at the base of all penetrations and vertical-to-horizontal transitions using a 3-course application of the appropriate BITEC flashing compound and fabric, having a minimum 4-inch (10.2 cm) width.

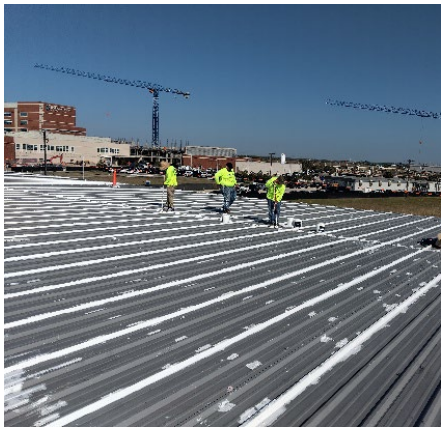
Metal Roofs



Cleaning of the Existing Metal Roof System: Pressure wash the existing metal roof system with clean water having a minimum working pressure of 3,000 psi to remove all dirt, dust, delaminating paints/coatings and/or contaminants including oil, oil-based roof cements, solvents, grease, and/or animal fats. Use a rotary spray tip and/or cleaner/degreaser to improve cleaning in difficult areas. Broom, scrub, and/or vacuum the surface as necessary. Completely remove all existing silicone-based sealants from the roof substrate prior to application of the BITEC coating system. Allow the roof to dry thoroughly.

Treatment of Rust Areas: *Replace panels where rust has compromised their structural integrity.* Remove all rust areas to prevent further deterioration of the metal roof panels. Remove all loose, flaking or powdery rust by wire brushing if it has not been removed during pressure washing. All areas exhibiting tightly bonded rust that cannot be removed shall be primed with the appropriate BITEC primer.

Treatment of Excessive Gaps on metal roofs and components: All gaps (i.e. fish-mouthing or oil-canning) between roof panels of 1/8" or less must be closed or made flush with self-drilling grommeted fasteners. All other gaps larger than 1/8" (3 mm) must or filled with backer rod or urethane foam. Allow the urethane foam to cure (if applicable) and secure tightly with self-drilling grommeted fasteners.



Repair of Dented/Damaged Roof Panels: Repair or replace dented and/or damaged metal roof panels to match the existing gauge and profile. Dents shall be mechanically removed to the maximum extent possible. Over broken or cracked ribs of the metal roof panels, apply a 4-inch (10.2 cm) strip of the BITEC reinforcing fabric in the appropriate BITEC flashing compound.

Treatment of Fasteners: All fasteners must be re-tightened, secured or replaced, as necessary. Replace all missing fasteners using a grommeted fastener, having a diameter that can achieve proper securement into the substrate. Replace all stripped fasteners that no longer properly engage using larger diameter grommeted fasteners. Apply the appropriate BITEC flashing compound to fully coat all exposed fasteners.

Gravel-surfaced Asphalt Built-Up Roofing (BUR)

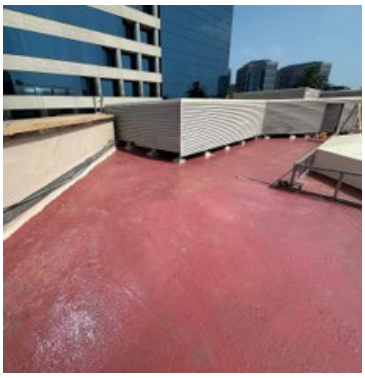


Removal of Loose Gravel: Using a power broom and/or vacuum, remove all loose gravel from the surface of the existing built-up roof. Firmly embedded gravel that would require spudding to remove may remain in place.

Treatment of Open Laps: Repair any open laps or punctures in the existing roof by patching and/or resealing the membrane with compatible materials. Replace sections of membrane where severe surface erosion has exposed the fibers of the reinforcing carrier. Where open laps have been repaired, apply a three-course patch using the specified silicone flashing compound and reinforcing fabric.

Cleaning of the Existing Roof Membrane System: Pressure wash the existing roof membrane with clean water having a minimum working pressure of 1,500 psi to remove all dirt, dust, delaminating paints/coatings and/or contaminants including oil, oil-based roof cements, solvents, grease, and/or animal fats. Take care to monitor the roof membrane and adjust the water pressure to ensure that it is not damaging the roof membrane during cleaning. Use a rotary spray tip and/or cleaner/degreaser to improve cleaning in difficult areas. Broom, scrub, and/or vacuum the surface as necessary. Completely remove all existing silicone-based sealants from the roof substrate prior to application of the BITEC Storm Breaker coating system. Allow the roof to dry thoroughly.

Treatment of Residual Asphalt (as necessary): Remove any existing asphalt residue or asphaltic roofing components using scrapers, wire brushes, power wire-wheels, or other similar tools. Treat any exposed asphalt that cannot be removed using the coating manufacturer's bleed blocker.



Vertical Seams: Coat all vertical seams of the flashing membrane with the specified silicone coating 4-inches wide, centered over the seam, back-brushed or rolled into the seam at a minimum wet film thickness (WFT) of 20 mils, to be completely filled and free of voids or surface irregularities.

Surface Filler: Upon completion of all repairs and preparation work, spray-apply, squeegee or roll the specified surface filler at a rate of 3 to 6 gallons (11.4 to 22.8 liters) per 100 ft^2 (9.3 m^2), depending on surface texture. Allow the surface filler to self-level during application and ensure that no gravel or surface irregularity is protruding more than a maximum 1/4 inch (6.4 mm) out of the surface filler. Allow the surface filler to fully cure prior to application of the specified coating system.

Specification Sheets

The following Specification Sheets represent general installation guidelines for common substrates. Each project is unique, and individual needs may vary depending on a variety of aforementioned factors within this guide. Please contact BITEC to evaluate each project individually and provide additional information to ensure that our Warranty requirements are met, as well as the Owner's expectations.

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Storm Breaker HB Silicone Roof Coating

Substrate	Preparation	Priming	Horizontal Seams/Laps	Vertical Seams/Laps
Metal Roof	• 3,000 psi wash • Flashing compound on exposed fasteners	If needed for adhesion	**3 Options:** • Roll or brush with BITEC flashing compound @ 4" x 25 mil DFT • Apply BITEC Butyl Fleece Tape and coating @ 20 mil DFT • 3-course - coating (15-mil DFT)/fabric/coating (20-mil DFT)	Roll or brush with BITEC flashing compound @ 4" x 25 mil DFT
PVC/TPO/ EPDM	1,500 psi wash	If needed for adhesion	• Loose/open laps: - Repair and 3-course of coating (15 mil DFT)/fabric/coating (20 mil DFT) • Watertight laps: - Apply coating @ 4" x min. 20 mil DFT	• Loose/open laps: - Repair and 3-course of coating/fabric/coating • Watertight laps: - Apply coating @ 4" x min. 20 mil DFT
Granule and Smooth Modified Bitumen		If needed for adhesion or as bleed blocker	• Loose/open laps: - Repair and 3-course of coating (20 mil DFT) / fabric / coating (20 mil DFT) • Watertight laps: Apply coating @ 4" x min. 20 mil DFT	
Gravel Surfaced Asphalt BUR	• Remove loose gravel • 1,500 psi pressure wash	Surface filler required		

Coating System *All application rates (gal/100 sf) are approximate and may vary for each specific project. Warranty eligibility is ultimately determined by the finished Dry Film Thickness (DFT).		Metal Roofs			Single Ply Membrane						Asphaltic					
					EPDM			PVC or TPO			SBS or APP Modified & Smooth Built-up (BUR)			Gravel-surfaced Built-up (BUR)		
Storm Breaker HB Silicone (Single coat or multiple coats depending on the existing roof condition)	Coverage	10 yr	15 yr	20 yr	10 yr	15 yr	20 yr	10 yr	15 yr	20 yr	10 yr	15 yr	20 yr	10 yr	15 yr	20 yr
	Application Rate* / 100 sf	1.4 gal	1.7 gal	2.0 gal	1.7 gal	2.0 gal	2.4 gal	1.7 gal	2.0 gal	2.4 gal	2.0 gal	2.4 gal	2.7 gal	2.4 gal	2.7 gal	3.0 gal
	Total DFT	20 mils	25 mils	30 mils	25 mils	30 mils	35 mils	25 mils	30 mils	35 mils	30 mils	35 mils	40 mils	35 mils	40 mils	45 mils

(Please see the complete Coating Warranty Matrix at the end of this guide for larger chart.)

Approx. Rate (gal/sq)	Approx. WFT (mils)	DFT (mils)
1.4	22	20
1.7	28	25
2.0	35	30
2.4	40	35
2.7	45	40
3.0	50	45

Warranty eligibility is ultimately determined by the finished, cured dry film thickness (DFT). Wet film thickness (WFT) is offered within this guide as an approximate recommendation. It is the contractor's responsibility to ensure that application rates are sufficient to meet the specified dry film thickness (DFT).

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Storm Breaker Acrylic Roof Coating

Substrate	Preparation	Priming	Horizontal Seams/Laps	Vertical Seams/Laps
Metal Roof	• 3,000 psi wash • Flashing compound on exposed fasteners	If needed for adhesion	**3 Options:** • Roll or brush with BITEC flashing compound @ 4" x 25 mil DFT • Apply BITEC Butyl Fleece Tape and coating @ 20 mil DFT • 3-course - coating (15-mil DFT)/fabric/coating (20-mil DFT)	Roll or brush with BITEC flashing compound @ 4" x 25 mil DFT
PVC/TPO/ EPDM	1,500 psi wash	If needed for adhesion	• Loose/open laps: - Repair and 3-course of coating (15 mil DFT)/fabric/coating (20 mil DFT) • Watertight laps: - Apply coating @ 4" x min. 20 mil DFT	• Loose/open laps: - Repair and 3-course of coating/fabric/coating • Watertight laps: - Apply coating @ 4" x min. 20 mil DFT
Granule and Smooth Modified Bitumen		If needed for adhesion or as bleed blocker	• Loose/open laps: - Repair and 3-course of coating (20 mil DFT) / fabric / coating (20 mil DFT) • Watertight laps: - Apply coating @ 4" x min. 20 mil DFT	
Gravel Surfaced Asphalt BUR	• Remove loose gravel • 1,500 psi pressure wash	Surface filler required		

Coating System *All application rates (gal/100 sf) are approximate and may vary for each specific project. Warranty eligibility is ultimately determined by the finished Dry Film Thickness (DFT).		Metal Roofs			Single Ply Membrane						Asphaltic				
					EPDM			PVC or TPO			SBS or APP Modified & Smooth Built-up (BUR)			Gravel-surfaced Built-up (BUR)	
Storm Breaker Acrylic (The roof must have a positive slope and no ponding water areas. A 20-year Warranty requires Storm Breaker Reinforcing Fabric where indicated throughout the entire roof area.)	Coverage	10 yr	15 yr	20 yr	10 yr	15 yr	20 yr	10 yr	15 yr	20 yr	10 yr	15 yr	20 yr		
	Base Coat Contractor Grade Rate* / 100 sf	1.6 gal or	1.9 gal or	Premium Grade Required	1.9 gal or	2.2 gal or	Premium Grade Required	1.9 gal or	2.2 gal or	Premium Grade Required	2.2 gal or	2.5 gal or	Premium Grade Required		
	Base Coat Premium Grade Rate* / 100 sf	1.5 gal	1.8 gal	2.0 gal	1.8 gal	2.0 gal	2.4 gal with fabric	1.8 gal	2.0 gal	2.4 gal with fabric	2.0 gal	2.4 gal	2.8 gal with fabric		
	Top Coat Contractor Grade Rate* / 100 sf	1.6 gal or	Premium Grade Required	Premium Grade Required	1.9 gal or	Premium Grade Required	Premium Grade Required	1.9 gal or	Premium Grade Required	Premium Grade Required	2.2 gal or	Premium Grade Required	Premium Grade Required		
	Top Coat Premium Grade Rate* / 100 sf	1.5 gal	1.8 gal	2.0 gal	1.8 gal	2.0 gal	2.4 gal	1.8 gal	2.0 gal	2.4 gal	2.0 gal	2.4 gal	2.8 gal		
	Total DFT	25 mils	30 mils	35 mils	30 mils	35 mils	40 mils	30 mils	35 mils	40 mils	35 mils	40 mils	45 mils		

(Please see the complete Coating Warranty Matrix at the end of this guide for larger chart.)

CONTRACTOR GRADE		
Approx. Rate (gal/sq)	**Approx. WFT (mils)**	**DFT (mils)**
1.6	25	12.5
1.9	30	15
2.2	35	17.5
2.5	40	20
PREMIUM GRADE		
Approx. Rate (gal/sq)	**Approx. WFT (mils)**	**DFT (mils)**
1.5	24	12.5
1.8	28	15
2.0	35	17.5
2.4	40	20
2.8	45	22.5

Warranty eligibility is ultimately determined by the finished, cured dry film thickness (DFT). Wet film thickness (WFT) is offered within this guide as an approximate recommendation. It is the contractor's responsibility to ensure that application rates are sufficient to meet the specified dry film thickness (DFT).

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Storm Breaker SEBS Roof Coating

Substrate	Preparation	Priming	Horizontal Seams/Laps	Vertical Seams/Laps
Metal Roof	• 3,000 psi wash • Flashing compound on exposed fasteners	If needed for adhesion	**3 Options:** • Roll or brush with BITEC flashing compound 4" x 25 mil DFT • Apply BITEC Butyl Fleece Tape and coating @ 20 mil DFT • 3-course - coating (15-mil DFT)/fabric/coating (20-mil DFT)	Roll or brush with BITEC flashing compound @ 4" x 25 mil DFT
PVC/TPO/ EPDM	1,500 psi wash	If needed for adhesion	• Loose/open laps: - Repair and 3-course of coating (15 mil DFT)/fabric/coating (20 mil DFT) • Watertight laps: - Apply coating @ 4" x min. 20 mil DFT	• Loose/open laps: - Repair and 3-course of coating/fabric/coating • Watertight laps: - Apply coating @ 4" x min. 20 mil DFT
Granule and Smooth Modified Bitumen		If needed for adhesion or as bleed blocker	• Loose/open laps: - Repair and 3-course of coating (20 mil DFT) / fabric / coating (20 mil DFT) • Watertight laps: - Apply coating @ 4" x min. 20 mil DFT	
Gravel Surfaced Asphalt BUR	• Remove loose gravel • 1,500 psi pressure wash	Surface filler required		

Coating System *All application rates (gal/100 sf) are approximate and may vary for each specific project. Warranty eligibility is ultimately determined by the finished Dry Film Thickness (DFT).		Metal Roofs			Single Ply Membrane				Asphaltic			
					EPDM	PVC or TPO			SBS or APP Modified & Smooth Built-up (BUR)			Gravel-surfaced Built-up (BUR)
Storm Breaker SEBS Rubberized	Coverage	10 yr	15 yr	20 yr		10 yr	15 yr	20 yr	10 yr	15 yr	20 yr	
	Application Rate* / 100 sf	2 coats @1.25 gal	2 coats @1.5 gal	3 coats @1.25 gal		2 coats @1.5 gal	3 coats @1.3 gal	3 coats @1.5 gal	2 coats @1.5 gal	3 coats @1.3 gal	3 coats @1.5 gal	
	Total DFT	18 mils	22 mils	28 mils		22 mils	28 mils	32 mils	22 mils	28 mils	32 mils	

(Please see the complete Coating Warranty Matrix at the end of this guide for larger chart.)

Approx. Rate (gal/sq)	Approx. WFT (mils)	DFT (mils)
2.5	40	18
3.0	48	22
3.75	60	28
4.5	72	32

Warranty eligibility is ultimately determined by the finished, cured dry film thickness (DFT). Wet film thickness (WFT) is offered within this guide as an approximate recommendation. It is the contractor's responsibility to ensure that application rates are sufficient to meet the specified dry film thickness (DFT).

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Storm Breaker Urethane Roof Coating

Substrate	Preparation	Priming	Horizontal Seams/Laps	Vertical Seams/Laps
Metal Roof	• 3,000 psi wash • Flashing compound on exposed fasteners	If needed for adhesion	**3 Options:** • Roll or brush with BITEC flashing compound @ 4" x 25 mil DFT • Apply BITEC Butyl Fleece Tape and coating @ 20 mil DFT • 3-course - coating (15-mil DFT)/fabric/coating (20-mil DFT)	Roll or brush with BITEC flashing compound @ 4" x 25 mil DFT
PVC/TPO/ EPDM	1,500 psi wash	If needed for adhesion	• Loose/open laps: - Repair and 3-course of coating (15 mil DFT)/fabric/coating (20 mil DFT) • Watertight laps: - Apply coating @ 4" x min. 20 mil DFT	• Loose/open laps: - Repair and 3-course of coating/fabric/coating • Watertight laps: - Apply coating @ 4" x min. 20 mil DFT
Granule and Smooth Modified Bitumen		If needed for adhesion or as bleed blocker	• Loose/open laps: - Repair and 3-course of coating (20 mil DFT) / fabric / coating (20 mil DFT) • Watertight laps: Apply coating @ 4" x min. 20 mil DFT	
Gravel Surfaced Asphalt BUR	• Remove loose gravel • 1,500 psi pressure wash	Surface filler required		

Coating System *All application rates (gal/100 sf) are approximate and may vary for each specific project. Warranty eligibility is ultimately determined by the finished Dry Film Thickness (DFT).		Metal Roofs			Single Ply Membrane						Asphaltic				
					EPDM			PVC or TPO			SBS or APP Modified & Smooth Built-up (BUR)			Gravel-surfaced Built-up (BUR)	
Storm Breaker Urethane (Storm Breaker Rust-Inhibitive Primer is required over steel and aluminum substrates.)	Coverage	10 yr	15 yr	20 yr	10 yr	15 yr	20 yr	10 yr	15 yr	20 yr	10 yr	15 yr	20 yr		
	Application Rate* / 100 sf	2 coats @ 1 gal	2 coats @ 1.2 gal	2 coats @ 1.4 gal	1 gal + 1.5 gal	2 coats @ 1.5 gal	1.7 gal + 1.6 gal	1 gal + 1.5 gal	2 coats @ 1.5 gal	1.7 gal + 1.6 gal	2 coats @ 2.0 gal	2 coats @ 2.2 gal	2 coats @ 2.4 gal		
	Total DFT	27 mils	32 mils	37 mils	34 mils	39 mils	44 mils	34 mils	39 mils	44 mils	52 mils	57 mils	62 mils		

(Please see the complete Coating Warranty Matrix at the end of this guide for larger chart.)

Approx. Rate (gal/sq)	Approx. WFT (mils)	DFT (mils)
2.0	32	27
2.4	38	32
2.5	40	34
2.8	44	37
3.0	48	39
3.3	54	44
4.0	64	52
4.4	70	57
4.8	75	62

Warranty eligibility is ultimately determined by the finished, cured dry film thickness (DFT). Wet film thickness (WFT) is offered within this guide as an approximate recommendation. It is the contractor's responsibility to ensure that application rates are sufficient to meet the specified dry film thickness (DFT).

COATING APPLICATION

Coating System		Metal Roofs			Single Ply Membrane						Asphaltic						Concrete	Urethane Spray Foam
*All application rates (gal/100 sf) are approximate and may vary for each specific project. Warranty eligibility is ultimately determined by the finished Dry Film Thickness (DFT).					EPDM			PVC or TPO			SBS or APP Modified & Smooth Built-up (BUR)			Gravel-surfaced Built-up (BUR)				
Storm Breaker HB Silicone (Single coat or multiple coats depending on the existing roof condition)	Coverage	10 yr	15 yr	20 yr	10 yr	15 yr	20 yr	10 yr	15 yr	20 yr	10 yr	15 yr	20 yr	10 yr	15 yr	20 yr	Contact BITEC	Contact BITEC
	Application Rate* / 100 sf	1.4 gal	1.7 gal	2.0 gal	1.7 gal	2.0 gal	2.4 gal	1.7 gal	2.0 gal	2.4 gal	2.0 gal	2.4 gal	2.7 gal	2.4 gal	2.7 gal	3.0 gal		
	Total DFT	20 mils	25 mils	30 mils	25 mils	30 mils	35 mils	25 mils	30 mils	35 mils	30 mils	35 mils	40 mils	35 mils	40 mils	45 mils		
Storm Breaker Acrylic (The roof must have a positive slope and no ponding water areas. A 20-year Warranty requires Storm Breaker Reinforcing Fabric where indicated throughout the entire roof area.)	Coverage	10 yr	15 yr	20 yr	10 yr	15 yr	20 yr	10 yr	15 yr	20 yr	10 yr	15 yr	20 yr				Contact BITEC	Contact BITEC
	Base Coat Contractor Grade Rate* / 100 sf	1.6 gal or	1.9 gal or	Premium Grade Required	1.9 gal or	2.2 gal or	Premium Grade Required	1.9 gal or	2.2 gal or	Premium Grade Required	2.2 gal or	2.5 gal or	Premium Grade Required					
	Base Coat Premium Grade Rate* / 100 sf	1.5 gal	1.8 gal	2.0 gal	1.8 gal	2.0 gal	2.4 gal with fabric	1.8 gal	2.0 gal	2.4 gal with fabric	2.0 gal	2.4 gal	2.8 gal with fabric					
	Top Coat Contractor Grade Rate* / 100 sf	1.6 gal or	Premium Grade Required	Premium Grade Required	1.9 gal or	Premium Grade Required	Premium Grade Required	1.9 gal or	Premium Grade Required	Premium Grade Required	2.2 gal or	Premium Grade Required	Premium Grade Required					
	Top Coat Premium Grade Rate* / 100 sf	1.5 gal	1.8 gal	2.0 gal	1.8 gal	2.0 gal	2.4 gal	1.8 gal	2.0 gal	2.4 gal	2.0 gal	2.4 gal	2.8 gal					
	Total DFT	25 mils	30 mils	35 mils	30 mils	35 mils	40 mils	30 mils	35 mils	40 mils	35 mils	40 mils	45 mils					
Storm Breaker SEBS Rubberized	Coverage	10 yr	15 yr	20 yr				10 yr	15 yr	20 yr	10 yr	15 yr	20 yr				Contact BITEC	Contact BITEC
	Application Rate* / 100 sf	2 coats @1.25 gal	2 coats @1.5 gal	3 coats @1.25 ga				2 coats @1.5 gal	3 coats @1.3 gal	3 coats @1.5 gal	2 coats @1.5 gal	3 coats @1.3 gal	3 coats @1.5 gal					
	Total DFT	18 mils	22 mils	28 mils				22 mils	28 mils	32 mils	22 mils	28 mils	32 mils					
Storm Breaker Urethane (Storm Breaker Rust-Inhibitive Primer is required over steel and aluminum substrates.)	Coverage	10 yr	15 yr	20 yr	10 yr	15 yr	20 yr	10 yr	15 yr	20 yr	10 yr	15 yr	20 yr				Contact BITEC	Contact BITEC
	Application Rate* / 100 sf	2 coats @ 1 gal	2 coats @ 1.2 gal	2 coats @ 1.4 gal	1 gal + 1.5 gal	2 coats @ 1.5 gal	1.7 gal + 1.6 gal	1 gal + 1.5 gal	2 coats @ 1.5 gal	1.7 gal + 1.6 gal	2 coats @ 2.0 gal	2 coats @ 2.2 gal	2 coats @ 2.4 gal					
	Total DFT	27 mils	32 mils	37 mils	34 mils	39 mils	44 mils	34 mils	39 mils	44 mils	52 mils	57 mils	62 mils					

HORIZONTAL AND VERTICAL LAP/SEAM TREATMENT

Storm Breaker Butyl Fleece Tape may be substituted for the base coat and fabric where reinforced (i.e. 3-course) treatment is specified.

Storm Breaker HB Silicone System	Compound: 25 mil DFT Approx. 120 linear feet/gal @ 4" wide	Reinforced Coating: 15 mil DFT base and 20 mil DFT top	Unreinforced Coating: 20 mil DFT Approx. 200 linear feet/gal @ 4" wide Reinforced Coating: 15 mil DFT base layer and 20 mil DFT top layer		Unreinforced Coating: 20 mil DFT Approx. 200 linear feet/gal @ 4" wide	Reinforced Coating: 20 mil DFT base and 20 mil DFT top	Coating: 20 mil DFT Approx. 200 linear feet/gal @ 4" wide (vertical only)	Reinforced: 20 mil DFT base and 20 mil DFT top (vertical only)
Storm Breaker Acrylic System	Compound: 25 mil DFT Approx. 120 linear feet/gal @ 4" wide	Reinforced Coating: 15 mil DFT base and 20 mil DFT top	Unreinforced Coating: 25 mil DFT Approx. 200 linear feet/gal @ 4" wide Reinforced Coating: 15 mil DFT base layer and 20 mil DFT top layer		Unreinforced Coating: 30 mil DFT Approx. 160 linear feet/gal @ 4" wide	Reinforced Coating: 30 mil DFT base and 20 mil DFT top	Coating: 30 mil DFT Approx. 160 linear feet/gal @ 4" wide (vertical only)	Reinforced: 30 mil DFT base and 20 mil DFT top (vertical only)

PRIMERS AND FILLER PRODUCTS

Storm Breaker Rust-Inhibitive Primer	1 gal per 200 sq ft						
Storm Breaker Asphalt Bleed Block Primer				1 gal per 100 sq ft	1 gal Per 100 sq ft		
Storm Breaker EPDM Bleed Block Primer		1 gal per 200 sq ft					
Storm Breaker Silicone Single Ply Primer			1 gal per 330 sq ft				
Storm Breaker Silicone Surface Filler				3-6 gallon per 100 ~~sq ft~~	3-6 gallon per 100 ~~sq ft~~		
Storm Breaker 2-Part Epoxy Primer						1 gal per 150-200 sq ft	
Storm Breaker SPF Primer							1 gal per 200 sq ft

*All application rates are approximate and may vary for each specific project. Warranty eligibility is ultimately determined by the finished Dry Film Thickness (DFT). Additional material may be required due to site conditions.
Add 15% to 25% material for surface area stretch-out, depending on metal panel profile. Adhesion tests are required prior to installing the new coating system. Bleed-blocking primer may also be required on exposed asphaltic surfaces. Any void, opening, or puncture larger than 1/8 inch must receive a reinforced (i.e. 3-course) repair using Storm Breaker Reinforcing Fabric or Storm Breaker Butyl Fleece Tape and compatible Storm Breaker repair compounds.
NOTE: Materials and Workmanship coverage (i.e. "NDL") is offered for Commercial projects only. Residential projects are limited to 10-year Materials only coverage. Ver. 6/5/2026

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