HB Silicone Roof Coating

TECHNICAL PRODUCT INFORMATION

Storm Breaker HB Silicone Roof Coating is a 100% silicone polymer, high solids, low VOC, one-part elastomeric coating specifically designed for use over a variety of roofing substrates. Once cured, this liquid applied restoration system provides a durable, seamless, and flexible waterproofing membrane.

FEATURES & BENEFITS

Storm Breaker HB Silicone Roof Coating also provides the following features and benefits:

- Compatible with the following substrates: metal, concrete, TPO, PVC, and EPDM single ply membranes, granule- or smooth-surface modified bitumen, asphalt built-up roofs (BUR), existing acrylic or silicone coatings (if well-adhered),and sprayed polyurethane foam (SPF)
- Resists lateral movement, allowing for normal expansion and contraction of the substrate
- Increased resistance to moisture penetration

PACKAGING

Packaging: 1-gallon pails, 5-gallon pails, 50-gallon drums, and 250-gallon totes

Quantity per pallet: 120 1-gal pails, 36 5-gal pails, 4 50-gal drums

Pallets per truckload (typical): 18 (or 11 250-gal totes)

Colors: White, dark gray, light gray, black, and tan. Premium and custom colors are available upon request.

APPLICATION

The surface to be coated must be clean, dry, and sound, as well as free of dirt, moisture, oils, algae, or other contaminants that may interfere with proper adhesion. Carefully remove any loose material from the surface with a wire brush or scraper. Grease and oil should also be removed with environmentally safe solvents or an appropriate cleaner. In most cases, a high-pressure water blast will be sufficient to prepare the surface. As with all coatings, proper preparation is key to yielding optimal results. BITEC always requires successful adhesion testing prior to starting any warranted roof coating projects.

Product application should be suspended immediately and our technical service personnel contacted if the results being obtained are less than desirable.

For best results, the temperature of the ambient air and the substrate should be within a range of 50° - 90°F (10° - 32.2°C). Higher temperatures will shorten the cure period and working time before the material has skinned over. Lower temperatures will lengthen the skinover, tack free, and ultimate cure time. Sudden temperature declines may also result in dew formation on surfaces, which can prevent adhesion development. For best results, the ambient relative humidity should be above 20%. Lower humidity will slow the cure time significantly. In average conditions, Storm Breaker HB Silicone will skin over in approximately 30 minutes. The tack free time is approximately 1 hour. The total cure time is typically between 1 to 4 hours.

Apply Storm Breaker HB Silicone at the minimum rate of 1.25 gallons per 100 ft^2 or as specified by BITEC to meet warranty eligibility requirements. The minimum dry mil thickness should be above 20 mils or as required by BITEC to meet specific warranty eligibility. Two passes of silicone and a primer coat may be required for some applications and warranty coverage. Use of thinner with Storm Breaker HB Silicone is not approved. Uncured HB Silicone can be cleaned and equipment can be flushed with VM&P Naphtha or mineral spirits.

While Storm Breaker HB Silicone can be applied by medium nap rollers, soft brushes, or high pressure airless spray equipment, 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 output rate. Hoses should be BUNA-N jacketed for prevention of moisture contamination. Hoses should have a minimum I.D. of 3/4” and an adequate working pressure. The spray gun should be high pressure (5,000 psi) with a reverse-a-clean spray tip having a minimum orifice of .030 and a 50° fan tip. See BITEC Application Bulletins for additional information.

Please refer to the BITEC Storm Breaker Products Installer’s Guide for detailed application guidelines.

As with any roofing project, good roofing practices should always be followed.

STORAGE & HANDLING

Keep container tightly closed and in a well-ventilated, dry, and temperature conditioned location. When stored in the original, unopened container between 40°F (4.4°C) and 90°F (32.2°C), the recommended shelf life is 24 months from the date of manufacture.

PRECAUTIONS

Storm Breaker HB Silicone should be used and stored away from heat and sources of ignition, in a well-ventilated environment. Avoid breathing of vapors or mist and prevent contact with eyes, skin, or clothing.

Safety first! Read all label information, SDS, and precautions before using. For safety information on our products, please visit www.bitec.com.

HB Silicone Roof Coating

TECHNICAL PRODUCT INFORMATION

STORM BREAKER™

Technical Schedule	
Solids by Weight	92% +/- 3%
Density at 77°F (25°C)	11.8 lbs / gal
Tack-Free Time	Approximately 1 hour
Cure Time	1-4 hours
VOC	<50 g / L
Flash Point	226°F (107.8°C)
Durometer Hardness, Shore A (ASTM D-2240)	51
Tensile Strength (ASTM D-2370)	336 psi
Elongation (ASTM D-2370)	164%
Permeability (ASTM E-96)	5.6 perms
Initial Solar Reflectivity (ASTM C-1549) (white only)	0.83
Initial Thermal Emissivity (ASTM C-1371) (white only)	0.90
Solar Reflectance Index (SRI)	103

All information is given in good faith but normal tolerances of manufacture and testing will apply. BITEC reserves the right to improve and change its products at any time without prior notice or advice. The use of BITEC products is determined by local conditions and individual requirements of each contract. In consideration of the many factors involved, BITEC cannot be held responsible for the improper application of its products and for conditions beyond its control. All claims filed against BITEC warranties will be subject to the provisions set forth at the date of the warranty issuance, and any addendum thereto. Under no circumstances will BITEC be held liable for any damage, whether personal injury or property damage, which occur during or after the application of any BITEC products.

BITEC, Inc.
PO Box 497
#2 Industrial Park Dr
Morrilton, AR 72110
Phone: (800) 535-8597
Fax: (501) 354-3019
www.bitec.com

Revision Date 12/2025