

Storm Breaker™ HB Silicone Roof Coating

TECHNICAL PRODUCT INFORMATION



Storm Breaker HB Silicone Roof Coating is a 100% silicone, high solids, low VOC, one part silicone elastomeric roof coating specifically designed for use in roofing applications as a protective coating over a variety of roofing substrates. Once cured, this liquid applied silicone coating provides a durable, seamless, and flexible waterproofing membrane that resists lateral movement and will allow for normal expansion and contraction. Storm Breaker HB Silicone provides excellent UV protection and increased resistance to moisture penetration, resulting in long term protection for the roof system.

FEATURES & BENEFITS

Storm Breaker HB Silicone Roof Coating can be applied to many types of roofing systems, including, but not limited to the following:

- Single ply, including TPO, PVC, EPDM
- Modified Bitumen
- Smooth built-up roofing (BUR)
- Existing acrylic coating (if well-adhered)
- Concrete
- Urethane foam
- Metal roofing

PACKAGING

Storm Breaker HB Silicone is available in 1-gallon (120 pails / pallet) and 5-gallon pails (36 pails / pallet). In addition, 50-gallon drums (4 drums / pallet) and 250-gallon totes (11 totes / truck) are offered for larger jobs. White is the standard color but additional premium and custom colors are available.

STORAGE & HANDLING

Store locked up and in a well-ventilated, dry, and cool place. Keep container tightly closed avoid contamination in sealed containers. Store away from heat and sources of ignition. When stored in the original, unopened container between 40°F (4.4°C) and 80°F (26.7°C), the recommended shelf life is 24 months from the date of manufacture.

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 good 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. With all coatings, proper preparation is key to yielding the optimal results. BITEC always recommends adhesion testing prior to starting any roof coating jobs.

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 and working time before the material has skinned. 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, relative humidity should be above 20%. Lower humidity will lower the cure time significantly. In average conditions, Storm Breaker HB Silicone will skinover in approximately 30 minutes. 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 rate of 1.25 gallons per 100 ft². Minimum dry mil thickness should be above 20 mils. Two passes of silicone and a primer coat may be required for some applications and warranty programs. Use of thinner with Storm Breaker HB Silicone is not recommended. 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 3500 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 reverse-a-clean spray tip having a minimum orifice of .030 and a 50° fan tip. See BITEC Application Bulletins for additional information.

PRECAUTIONS

Storm Breaker HB Silicone should be used and stored away from heat and sources of ignition, in a well ventilated atmosphere. 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.

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| Technical Schedule | |
|---|-----------------|
| Solids Weight | 92% +/- 3% |
| Density at 77°F (25°C) | 11.8 lbs / gal |
| Tack-Free Time | 1-2 hours |
| Cure Time | 1-4 hours |
| VOC | <50 g / L |
| Flash Point | 226°F (107.8°C) |
| Durometer Hardness (ASTM D-2240) | 51 Shore A. |
| 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) | 0.826 |
| Initial Thermal Emissivity (ASTM C-1371) (white only) | 0.9 |
| SRI Value | 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 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.

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