

Product Data Sheet

USP® SBS 160M

USP® SBS 160M is a tough mineral surfaced, SBS (Styrene-Butadiene-Styrene) mop or cold applied membrane. Manufactured with a non-woven polyester mat, that is saturated and coated with high quality, asphaltic bitumen and SBS elastomers for a durable, flexible and easily maintainable membrane. It is designed for use as a cap membrane in modified bitumen and hybrid built-up roof systems.

| Physical Properties (ASTM D5147): | Test Results | ASTM D6164 Minimum Standard |
|--|---------------------|------------------------------------|
| Tensile Strength (lbf/in), 0°F (MD/XMD) | 110/92 lbf/in | 70 lbf/in |
| Tensile Strength (lbf/in), 73°F (MD/XMD) | 100/75 lbf/in | 50 lbf/in |
| Elongation (% @ Max Load), 0°F, (MD/XMD) | 30/26% | 20% |
| Elongation (% @ Max Load), 73°F (MD/XMD) | 55/56% | 35% |
| Elongation (% @ 5% Max Load), 73°F (MD/XMD) | 57/68% | 38% |
| Tear Strength (lbf), (MD/XMD), 73°F, minimum | 112/88 lbf | 55 lbf |
| Low Temperature Flexibility, (°F), maximum | 0°F (-18°C) | 0°F |
| Dimensional Stability, %, maximum | <0.5% | 1% |
| High Temperature Stability, (°F) | 215°F (101°C) | 215°F |
| Granule Embedment, g, maximum | pass | <2.0 g |

Product Name: USP® SBS 160M

Classification: SBS Modified Bitumen

Application Method: USP® SBS 160M is applied using compatible hot asphalt, USP® 330 SBS Modified Adhesive or USP® 901 Premium Modified Adhesive.

Approvals: Meets ASTM D 6164 Type I, Grade G. USP® SBS 160M is UL Classified with Underwriter's Laboratories (UL), is Factory Mutual (FM) Approved, and listed with Florida Building Code (FBC) FL-8077, and Texas Department of Insurance (TDI) RC-123. Contact U.S. Ply, Inc. for specific/applicable codes.

Product Data: USP® SBS 160M (typical)

Thickness: 3.8 mm (150 mils)

Weight: 98 lbs/roll (44.5 kg/m²)

Roll Dimensions: 39 3/8" x 32' 9" (1m x 10m). Each roll is approximately 1 square applied.

Green Standards Information: USP® SBS 160M contains approximately 10.2% of recycled materials by product weight. 3.4% of materials are comprised of post consumer recycled materials and 6.8% of materials are comprised of pre consumer recycled materials. The post consumer recycled materials are derived from recycled post consumer plastics which averts disposal in landfills or commercial dumps. The pre consumer recycled materials are derived from reclaimed non-hazardous coal combustion by-product waste which averts disposal of coal by-product waste in landfills or commercial dumps.

Application: See most current edition of USP® SBS 160 Application Specification Manual for best guidelines for installing this product. Follow applicable weather precautions for installation and storage. Set and align rolls before application with at least 4" (10.2 cm) side laps and 6" (15.2 cm) end laps. Adjacent end laps shall be staggered 18" (45.7 cm) apart. Stagger laps between the base ply and SBS membrane. Install membrane in either cold adhesive or hot asphalt. Cold adhesive shall be applied at the rate of 1.5 – 2.0 gal per 100 sq. ft. (6 L/m² - 8 L/m²). Asphalt shall be applied at its EVT temperature or

425°F (218°C), whichever is greater, in a uniform layer, without voids, at a rate of 25 lb/square (1.2 kg/m²) ± 20%. A minimum of 3/8" (10 mm) adhesive/asphalt flow-out must be obtained at all seam areas. Do not exceed a maximum 2" (5.1 cm) asphalt flow-out. Ensure that the cap sheet lays flat in the adhesive/asphalt. There must be complete adhesion between the cap sheet and the adhesive/asphalt. Brooming in may be necessary under certain conditions to ensure that the cap sheet adheres solidly to the adhesive/asphalt. Apply extra pressure to avoid creating open channels, where three or more membranes are lapped. Check all seams for full and uniform adhesion. Dry laps are not acceptable. Lift all unadhered seams with a trowel and reseal with USP® 333 SBS Flashing Cement or USP® 954 Premium SBS Flashing Cement. **Base Flashing:** SBS 160 roof systems must be flashed according to USP® SBS 160 Flashing Details. **Surfacing:** USP® SBS 160M is intended to be used as a cap ply.

CAUTION: Application of SBS membranes utilizes hot asphalt. Always wear protective clothing as contact with molten product can result in physical injury or the applicator may suffer burns. All personnel involved in roofing should be properly trained in safety and fire prevention. Proper clothing and equipment should be worn at all times on the job site. Follow all local fire codes; have proper fire extinguishers in working condition, on the roof and readily available.

All values given are approximate and are subject to change without notice. There is no implied or express warranty given through these values or statements, nor are there any assertions that the product purchased has been individually tested to conform to these standards. Testing is performed on a random basis by "in-house" and independent "third party" evaluation for the purpose of classification and or approval. Acceptance, purchase and selection of these products are the sole responsibility of the buyer or buyer's representative. We assume no responsibility for coverage, performance or injuries resulting from use. Liability, if any, is limited to replacement of the product. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY U.S. PLY, INC. EXPRESSED OR IMPLIED; STATUTORY, BY OPERATION OF LAW, OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.



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