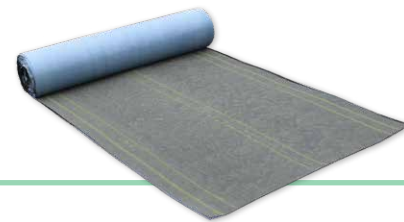


**TECHNICAL DETAILS**

<b>WEIGHT/ROLL</b> 60 lbs. 27.2 kg	<b>ROLL SIZE</b> 2 square roll
<b>WIDTH</b> 36" 0.91 m	<b>LENGTH</b> 65' 19.8 m
<b>THICKNESS</b> 55 mils nominal	<b>TOTAL AREA PER ROLL</b> 195 ft <sup>2</sup> 18.1 m <sup>2</sup>
<b>ROLLS/PALLET</b> 25 from OR/CA	<b>ROLLS/PALLET</b> 28 from OK
<b>PERM RATING</b> ≤ 0.1 U.S. perms	<b>LAY LINES</b> 2", 4", 17" 51 mm, 102 mm, 432 mm

**NEX<sup>®</sup> POLYMER MODIFIED  
SELF-ADHERING  
UNDERLAYMENT FOR ICE AND  
WATER PROTECTION**



**TEST COMPLIANCE**

<b>ASTM</b> D1970	
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**FEATURES & BENEFITS**

- Sustainable NEX<sup>®</sup> asphalt technology
- Self-adhering; waterproof
- Seals around nails
- Protects against leaks from ice dams and wind-driven rain
- Equally effective flashing membrane

**PRODUCT USE**

401 Arctic Seal<sup>®</sup> is a specially designed and manufactured, self-adhering, NEX<sup>®</sup> SBS polymer modified asphalt underlayment for use on steep slopes to prevent moisture intrusion from ice dams and wind-driven rain, as required by many building codes. Arctic Seal<sup>®</sup> serves a dual role as a flashing membrane, helping protect areas susceptible to leaks such as valleys, roof-to-wall transitions, and around vents and skylights. Arctic Seal<sup>®</sup> is approved for use under fire-rated, code-compliant roof coverings and as a vapor retarder in various FM Approved roofing assemblies. Consult Malarkey's Technical Services Department for approval of roof systems.

**COMPOSITION & MATERIALS**

Arctic Seal<sup>®</sup> is manufactured on a non-woven fiberglass mat with a NEX<sup>®</sup> SBS polymer modified bitumen (asphalt) top coating and surfaced with a sand release agent. The underside has an aggressive asphalt-based adhesive, protected with a factory-applied, split-release film that is removed prior to installation.

**APPLICATION/INSTALLATION**

Arctic Seal<sup>®</sup> shall be applied as specified. Roof decks should be sound, smooth, dry, meet necessary local requirements, and provide positive drainage. Minimum approved slope for *steep slope* applications is 2" (51 mm) per 12" (305 mm). When using Arctic Seal<sup>®</sup> for full deck protection, make sure adequate ventilation and moisture control issues are addressed. Do not use Arctic Seal<sup>®</sup> as an underlayment under metal roofs, but it is recommended under and around sheet metal flashing details on shingle roofs, including valley metal. It is not intended as a permanently-exposed roofing surface but can be left uncovered for up to 60 days if necessary before the primary roof covering is installed. Arctic Seal<sup>®</sup> has passed ASTM D5147 *compound stability* testing up to 225°F (107°C) without failure. Installation instructions can be found at WWW.MALARKEYROOFING.COM or by contacting our Technical Services Department.

**STORAGE & HANDLING**

For best results, Malarkey recommends Arctic Seal<sup>®</sup> be protected from the weather and stored on end in a cool, dry, well-ventilated area until applied.

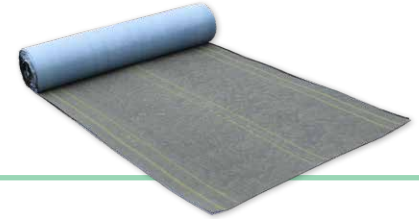
**WARRANTY**

Arctic Seal<sup>®</sup> is eligible for expanded warranty coverages relative to its use as a single roofing accessory or in combination with others in a complete Malarkey roofing system. Installed separately, it carries a 10-year product warranty against manufacturing defects. Contact your roofing contractor, local distribution center, or Malarkey for full details. See below for TECHNICAL ASSISTANCE contact information.

Arctic Seal<sup>®</sup> and other Malarkey products are available throughout North America and Pacific Rim countries. Visit WWW.MALARKEYROOFING.COM for additional product information and availability.

Note: Malarkey Roofing Products<sup>®</sup> inventory SKU number for this product: 401 Arctic Seal<sup>®</sup>

**NEX® POLYMER MODIFIED  
SELF-ADHERING  
UNDERLAYMENT FOR ICE AND  
WATER PROTECTION**



PHYSICAL PROPERTIES	ASTM SPECIFICATION D1970	TYPICAL RESULTS
Maximum load MD/CD, min	25 lbf/in. (4.4 kN/m)	Pass
Elongation @ break, min of modified bitumen portion	10%	Pass
Adhesion to plywood, min at 40°F (4.4°C)	2.0 lbf/ft width (0.92 kgf/30.5 cm)	Pass
Adhesion to plywood, min at 75°F (24°C)	12.0 lbf/ft width (5.44 kgf/30.5 cm)	Pass
Thermal stability, max	0.1 in. (3 mm)	No flow
Flexibility temperature	-20°F (-29°C)	Pass
Tear resistance MD/CD, min	20 lbf (89 N)	Pass
Moisture vapor permeance, max	0.1 U.S. perms (5.7 ng/Pa.S.M. <sup>2</sup> )	0.03 U.S. perms (1.71 ng/Pa.S.M. <sup>2</sup> )
Sealability around nail	No leaks	Pass
Waterproof integrity after low temperature flexibility	No leaks	Pass
Waterproof integrity of lap seam	No leaks	Pass

As manufactured, Arctic Seal® meets the requirements of ASTM D1970 TABLE 1, Physical Requirements of Self-Adhering Polymer Modified Bituminous Sheet Materials Used as Steep Roofing Underlayment for Ice Dam Protection.

Effective 7/20  
Supersedes all previously published data  
Check for most current version  
on our website.

**TECHNICAL ASSISTANCE:**

Malarkey has technical services assistance available.  
Contact Malarkey for details:  
Call weekdays 7:00 am to 5:00 pm Pacific Time  
at 800.545.1191 or 503.283.1191.  
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