

### TECHNICAL DETAILS

<b>WEIGHT/ROLL</b> 40 lbs. 18.1 kg	<b>ROLL SIZE</b> 2 square roll
<b>WIDTH</b> 36" 0.91 m	<b>LENGTH</b> 67' 20.4 m
<b>TOTAL AREA PER ROLL</b> 201 ft <sup>2</sup> 18.7 m <sup>2</sup>	<b>THICKNESS</b> 45 mils nominal
<b>ROLLS/PALLET</b> 25	

### TEST COMPLIANCE

<b>ASTM</b> D1970 Meets & Exceeds	<b>ASTM</b> E108 Class A
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### FEATURES & BENEFITS

- Thermal stability to 260°F (127°C)
- Ideal underlayment under metal roofs
- Seals around nails
- Anti-skid, walkable surface
- UV exposure up to six (6) months
- Approved for use with Class A fire-rated, shingle roof coverings

## SELF-ADHERING HIGH TEMPERATURE UNDERLAYMENT



### PRODUCT USE

406 Secure Start® HT is a self-adhering, *high temperature* underlayment suitable for use as a waterproof underlayment in steep slope roofing applications with metal roofing, asphalt shingles, wood shakes/shingles, and mechanically-fastened roof tile. Secure Start® HT is recommended for complete roof deck coverage under metal and in areas with wind-driven rain, extreme temperatures, or climates causing ice dams. It serves a dual role as a flashing membrane, protecting areas susceptible to leaks such as valleys, roof-to-sidewall transitions, and around vents and skylights. Secure Start® HT is approved for use with Class A fire-rated, code-compliant *shingle* roof coverings; if roofing with metal, check with the metal panel manufacturer for their approval of Secure Start® HT as the underlayment. Malarkey's Technical Services Department can help with confirmation of roof systems.

### COMPOSITION & MATERIALS

Secure Start® HT is manufactured with a synthetic, textured polypropylene surface while the underside and selvage edge are coated with an aggressive, asphalt-based adhesive. Secure Start® HT is engineered with five layers of secured redundancy for strength and durability. A silicone-treated, split-release film protects the adhesive prior to application. The topside edge of the sheet has a 3" (76 mm) selvage for lap joint seams.

### APPLICATION

Secure Start® HT shall be applied as specified. Roof decks should be sound, smooth, meet necessary local requirements, and be dry at the time of installation. Minimum approved slope is 2" (51 mm) per 12" (305 mm). Malarkey recommends minimum 3" (76 mm) side laps and back-nailing where indicated on 4:12 slopes and greater, and when underlayment is left exposed in windy or rainy climates for an extended period. Secure Start® HT is not intended as a permanently-exposed roofing surface but can be left uncovered for up to six (6) months if necessary before the primary roof covering is installed. Complete installation instructions can be found at [WWW.MALARKEYROOFING.COM](http://WWW.MALARKEYROOFING.COM) or by contacting our Technical Services Department.

### PRECAUTION

For best results, Malarkey Secure Start® HT should be protected from the weather and stored on end in a cool, dry, well-ventilated area until applied. Storage temps between 40°F (4.4°C) and 100°F (38°C) are recommended for best installation.

### WARRANTY

Secure Start® HT carries a Limited Lifetime Warranty relative to its use as a single roofing accessory or in combination with Malarkey Limited Lifetime Warranty shingles and other accessory products in a complete Malarkey roofing system. Contact your roofing contractor, local distribution center, or Malarkey for full details. See below for TECHNICAL ASSISTANCE contact information.

Secure Start® HT underlayment and other Malarkey products are available throughout North America and Pacific Rim countries.

Visit [WWW.MALARKEYROOFING.COM](http://WWW.MALARKEYROOFING.COM) for additional product information and availability.

Note: Malarkey Roofing Products® inventory SKU number for this product: 406 Secure Start® HT

#### 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.  
[technicalinquiries@malarkeyroofing.com](mailto:technicalinquiries@malarkeyroofing.com)

#### CORPORATE OFFICE:

3131 N. Columbia Blvd. Telephone: 503.283.1191  
Portland, OR 97217-7472 or 800.545.1191  
P.O. Box 17217 Fax: 503.289.7644  
Portland, OR 97217-0217



## SELF-ADHERING HIGH TEMPERATURE UNDERLAYMENT

PHYSICAL PROPERTIES	TEST METHOD	ASTM SPECIFICATION	TYPICAL RESULTS
Thickness, min	ASTM D5147	40 mils (1.0 mm)	45 mils (1.1 mm)
Maximum load MD, min	ASTM D1970	25 lbf/in. (4.4 kN/m)	100 lbf/in. (17.5 kN/m)
Maximum load CD, min	ASTM D1970	25 lbf/in. (4.4 kN/m)	80 lbf/in. (14 kN/m)
Elongation at break, min	ASTM D1970	10%	30%
Tear resistance MD, min	ASTM D1970	20 lbf (89 N)	150 lbf (667 N)
Tear resistance CD, min	ASTM D1970	20 lbf (89 N)	125 lbf (556 N)
Adhesion to plywood, min at 40°F	ASTM D1970	2.0 lbf/ft width (0.92 kgf/30.5 cm)	15.0 lbf/ft width (6.9 kgf/30.5 cm)
Adhesion to plywood, min at 75°F	ASTM D1970	12.0 lbf/ft width (5.44 kgf/30.5 cm)	65.0 lbf/ft width (29.5 kgf/30.5 cm)
Thermal stability, max	ASTM D1970	0.1 in. (3 mm)	0.0 (0)
Flexibility temperature	ASTM D1970	-20°F (-29°C)	Pass
Moisture vapor permeance, max	ASTM E96	0.1 U.S. perms (5.7 ng/Pa.S.M. <sup>2</sup> )	0.03 U.S. perms (1.7 ng/Pa.S.M. <sup>2</sup> )
Waterproof integrity of lap seam	ASTM D1970	No leaks	Pass
Sealability around nail	ASTM D1970	No leaks	Pass

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