

TECHNICAL DETAILS

WEIGHT/ROLL 36 lbs. 16.3 kg	ROLL SIZE 2 square roll
WIDTH 36" 0.91 m	LENGTH 67' 20.4 m
TOTAL AREA PER ROLL 201 ft ² 18.7 m ²	THICKNESS 45 mils nominal
ROLLS/PALLET 28 from OK	ROLLS/PALLET 25 from CA

TEST COMPLIANCE

ASTM D1970	ASTM 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

The 405 SecureStart™ HT NS (Non-Selvage) is a self-adhering, *high temperature* underlayment designed for use as a waterproof underlayment on roof slopes 5:12 and greater with metal roofing, asphalt shingles, wood shakes/shingles, and mechanically-fastened roof tile. SecureStart™ HT NS 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 the rake edges of roof, valleys, roof-to-sidewall transitions, and around vents and skylights. SecureStart™ HT NS 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 SecureStart™ HT NS as the underlayment. Malarkey's Technical Services Department can help with confirmation of roof systems.

COMPOSITION & MATERIALS

SecureStart™ HT NS is manufactured with a synthetic, textured polypropylene surface while the underside is coated with an aggressive, asphalt-based adhesive. SecureStart™ HT NS is engineered with multiple layers for long-term strength and durability. A silicone-treated, split-release film protects the adhesive prior to application and a paint line 4" (102 mm) from the edge indicates the max. width of lap joint seams.

APPLICATION

Roof decks should be sound, smooth, meet necessary local requirements, and be dry at the time of installation. SecureStart™ HT NS shall only be applied on roof slopes 5:12 and greater. Side laps are min. 3" (76 mm) and paint lines on the material show how far to lap one course over another. Adhere side and end laps with recommended adhesives depending on the finish roofing material. SecureStart™ HT NS may be left exposed for up to six (6) months, but Malarkey recommends back-nailing side laps when the underlayment is left exposed for an extended period in windy or rainy climates. Complete installation instructions can be found at WWW.MALARKEYROOFING.COM or by contacting our Technical Services Department.

PRECAUTION

For best results, Malarkey SecureStart™ HT NS 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

SecureStart™ HT NS 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.

SecureStart™ HT NS underlayment 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® inventory SKU number for this product: 405 SecureStart™ HT NS

TECHNICAL ASSISTANCE:

Malarkey has technical services assistance available.
Contact Malarkey for details:
Call weekdays 7:00 am to 5:00 pm PST,
at 800.545.1191 or 503.283.1191.
technicalinquiries@malarkeyroofing.com

CORPORATE OFFICE:

3131 N. Columbia Blvd. Telephone: 503.283.1191
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Portland, OR 97217-0217

Effective 8/19
Supersedes all previously published data
Check for most current version
on our website.



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)	35 lbf/in. (6.1 kN/m)
Maximum load CD, min	ASTM D1970	25 lbf/in. (4.4 kN/m)	35 lbf/in. (6.1 kN/m)
Elongation at break, min	ASTM D1970	10%	20%
Tear resistance MD, min	ASTM D1970	20 lbf (89 N)	30 lbf (134 N)
Tear resistance CD, min	ASTM D1970	20 lbf (89 N)	30 lbf (134 N)
Adhesion to plywood, min at 40°F	ASTM D1970	2.0 lbf/ft width (0.92 kgf/30.5 cm)	5.0 lbf/ft width (2.3 kgf/10.2 cm)
Adhesion to plywood, min at 75°F	ASTM D1970	12.0 lbf/ft width (5.44 kgf/30.5 cm)	15.0 lbf/ft width (6.9 kgf/7.1 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. ²)	Pass
Waterproof integrity of lap seam	ASTM D1970	No leaks	Pass
Sealability around nail	ASTM D1970	No leaks	Pass

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