



# PALISADE<sup>TM</sup> SA-HT

## SELF ADHERED UNDERLAYMENT

**ARCHITECTS & SPECIFIERS : SHINGLES, TILES, & ROOF COVERINGS - 07305**

### 1. Product Name

PALISADE-SA-HT<sup>TM</sup> Self-Adhered Roofing Underlayment

### 2. Manufacturer

SDP Advanced Polymer Products Inc. 410-130 Bridgeland Ave., Toronto, Ontario, Canada M6A-1Z4  
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### 3. Product Description

#### BASIC USE

PALISADE-SA-HT<sup>TM</sup> self-adhered roofing underlayment is used on steep sloped roofs beneath shingles, tiles, metal, copper shake, slate, synthetic roofing, and wood shake. PALISADE-SA-HT<sup>TM</sup> self-adhered roofing underlayment is a waterproofing membrane designed to reduce the occurrence of leaks caused by ice damming and wind driven rain conditions penetrating primary roof system coverings, as well as damaged roof coverings, and as temporary cover on exposed roof systems. PALISADE-SA-HT<sup>TM</sup> self-adhered underlayment is an advanced polymer formulation high temperature bituminous underlayment ideally suited for tile and metal roofing. PALISADE<sup>TM</sup> possesses STRONGHOLD<sup>TM</sup> skid resistant technology which provides superior applicator and roof loading traction safety, advanced UV technology for up to 6 month exposed roof protection PALISADE-SA-HT<sup>TM</sup> utilizes a light blue KOOL BLUE<sup>TM</sup> technology to render the material low glare, and cool temperature during handling and installation, and reduces surface heat buildup by over 8X compared to black asphalt felt paper.

#### COMPOSITION & MATERIALS

PALISADE-SA-HT<sup>TM</sup> is a self-adhered, steep sloped roofing underlayment comprised of an advanced formula HT bituminous waterproofing membrane layer, a high strength coated woven facer possessing STRONGHOLD<sup>TM</sup> skid resistant technology, and a siliconized poly split release liner.

#### PRECAUTIONS & LIMITATIONS

- Depending on roof pitch and surface conditions (wet, dusty, frost, dew), coefficient of friction may change, and surface can become slippery.
- Consistent with good roofing practices as referenced by OSHA, use caution when walking or standing on roof deck, and always wear fall protection.
- In high wind or long term exposed roof conditions, follow installation instructions to increase fastening rate hold down force on the underlayment, and seal laps.
- Do not leave permanently exposed to sunlight. PALISADE<sup>TM</sup> SA-HT is not designed to replace primary roof covering, but can be left exposed for up to 6 months if installation instructions are followed.



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# SDP PALISADE™ SA-HT SELF-ADHERING UNDERLAYMENT

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### 4. Technical Data

#### APPLICABLE STANDARDS

##### ASTM International

- ASTM D 1970-01, Standard Specification for Self-Adhering Polymer Modified Bituminous Sheet Materials Used as Steep Roofing Underlayment for Ice Dam
- ASTM D 5147-02ae1, Standard Test Methods for Sampling and Testing Modified Bituminous Sheet Materials
- ASTM D 2523-00, Standard Practice for Testing Load-Strain Properties of Roof Membranes
- ASTM D 903-98 (2004), Standard Test Method for Peel or Stripping Strength of Adhesive Bonds
- ASTM D 1204-02, Standard Test Method for Linear Dimensional Changes of Non-rigid Thermoplastic Sheeting or Film at Elevated Temperature
- ASTM D 4073-94 (2003), Standard Test Method for Tensile-Tear Strength of Bituminous Roofing Membranes
- ASTM E 96-00e1, Standard Test Method for Water Vapor Transmission of Materials.

##### PHYSICAL PROPERTIES

PALISADE™ SA-HT self-adhering underlayment meets the physical & performance characteristics as indicated in Table 1

**TABLE 1 - PHYSICAL PROPERTIES OF PALISADE™ SA-HT**

| TECHNICAL DATA PROPERTY     | TEST METHOD   | PALISADE™ SA-HT TYPICAL VALUE             |
|-----------------------------|---------------|-------------------------------------------|
| Color                       | -             | KOOL BLUE™                                |
| Top Surface                 | -             | STRONGHOLD™ Anti-Skid Technology: Polymer |
| Bottom Release Liner        | -             | Silicone Split Release Poly               |
| Permeability                | ASTM E96-00   | 0.01 perms                                |
| Nominal Thickness           | ASTM D1777    | 40 mil (1 mm)                             |
| Nail Sealability            | ASTM D1970    | Pass                                      |
| Lap Sealability             | ASTM D1970    | Pass                                      |
| Tensile Strength            | ASTM D226     | 121 lbf/in. (21kN/m)                      |
| Tear Strength               | ASTM D4523    | 160 lbf/in. (28 kN/m)                     |
| Elongation                  | ASTM D2523-00 | 16%                                       |
| Low Temperature Flexibility | ASTM D1970    | -22° F (-30° C) - Pass                    |
| Adhesion to Plywood         | ASTM D1876    | 55 lbf/in.: 75° F (9.6 kN/m: 24° C)       |
| Adhesion to Plywood         | ASTM D1876    | 23 lbf/in.: 40° F (4 kN/m: 4.4° C)        |
| UV Exposure                 | ASTM G90      | 6 months                                  |
| Temperature Range           | ASTM D1970    | LT: 15° F (-9° C) to HT: 250° F (121° C)  |
| Dimensions                  | -             | 36 in. x 66.7 ft. (91.4 cm x 20.3 m)      |
| Square/Roll                 | -             | 2                                         |
| Roll Weight                 | -             | 45 lbs. (21 kg)                           |
| Rolls/Pallet                | -             | 30                                        |

## 5. Installation

### FOR USE UNDER METAL, TILE, SLATE, WOOD SHAKE, COMPOSITION SHINGLES

**PALISADE-SA-HT™ self adhering membrane** is bonded to a properly prepared, dry (not damp), and clean substrate which is defined as, but is not limited to: free of dirt; dust; debris; oils; un-adhered coatings; protrusions; voids; any other contaminants that may result in a surface that is not sound or is un-even and affects the adhesion of the membrane to the substrate.

Acceptable substrates for **PALISADE-SA-HT™** are plywood, OSB, wood plank or composition, concrete, masonry, faced gypsum and approved insulation. Other surfaces may be acceptable, but the installer is responsible to determine acceptable substrate surface and whether priming is required so that **PALISADE-SA-HT™** will stay adhered to that substrate.

**PALISADE-SA-HT™** must be installed above properly ventilated space (follow all building codes applicable to your region and structure type) as it is considered a vapor barrier (.1 perms). Installation of **PALISADE-SA-HT™** membrane occurs when the release film is removed and the self-adhesive underside is matted onto the approved substrate using applied pressure. **PALISADE-SA-HT™** is manufactured with a **3 inch selvage edge** on one side and only this side will be used on a lengthwise overlap when being installed. For vertical laps, use a 6 inch (152mm) overlap, except in ice damming applications, use a 12 in (305mm) overlap. Starting at the low point, and with salvage edge at the high point, position horizontally a full roll or cut the membrane into 10-15 ft. (3-5m) lengths and re-roll loosely. Peel back 1-2 ft. (300-600mm) of release film, align the membrane, and continue to peel the release film from the membrane. Press the membrane in place with heavy hand pressure. Apply uniform pressure to the membrane roll side and end laps to insure water tightness and bonding to the substrate.

Always work from the low to the high point of the roof. Follow good roofing practice by orientating **PALISADE-SA-HT™** so side laps shed water. Apply the membrane in valleys before the membrane is applied to the eaves. For valley and ridge application, peel the release film; center the sheet over the valley or ridge, drape, and press into in place. Work the center of the valley or ridge outward in each direction. Following placement along the eaves, continue application of the membrane up slope. If nailing of the membrane is necessary on steep slopes, especially during hot or cold weather, back nail and cover the nails by overlapping with the next sheet.

Winter climates can produce ice dams and snow loads against exterior siding while wind driven rains can create headwater heights that challenge the water tightness of exhaust vents, skylights and exterior wall siding. Extend **PALISADE-SA-HT™** to the height as recommended by the local building code or to the highest locally expected level in order to maintain water tightness from wind driven rain, headwater back-up, ice dams and snow load.

**Release liners are slippery.** Remove from work area immediately after membrane application. Do not fold over the roof edge unless the edge is protected by a drip edge, gutter, or other flashing material. Do not install on the chamfered edges of wood plank. Do not install directly on old roof coverings. Do not install directly under roof coverings especially sensitive to corrosion, such as zinc, without providing proper ventilation. Repair holes, fish mouths, tears, and damage with a round patch of membrane extending past the damaged area 6 inches (150 mm) in all directions. If fasteners are removed leaving holes in the membrane, they must be patched. The membrane may not self-seal open fastener penetrations. Do not install fasteners through the membrane over unsupported membrane areas of the structural deck, such as over the joints between adjacent structural panels. **PALISADE-SA-HT™** has a minimal application temperature of 40°F. The membrane, deck surface, and the air shall be at a temperature of 40°F. or greater during installation. Prior to sealing onto EPDM, PVC, Coal Tar Pitch or polysulfide, contact SDP Advanced Polymer Products Inc.

**PALISADE-SA-HT™** is not designed to replace the primary roof covering material, or for indefinite outdoor exposure. The finished roof must completely cover the membrane. Final roofing must be installed within 6 months.

AS WITH ANY ROOFING PRODUCT, OBSERVE ALL SAFE ROOFING CODES & PRACTICES (OSHA Regulations, Fall Protection Systems Criteria and Practices – 1926.502). USE CAUTION WHEN WALKING OR STANDING ON **PALISADE™ SA-HT**, AS SKID RESISTANCE MAY CHANGE WITH WET, DUST OR FROST CONDITIONS, AND ROOF PITCH. FAILURE TO USE PROPER SAFETY GEAR AND FOOTWEAR CAN RESULT IN SERIOUS INJURY.

## 6. Availability & Cost

### AVAILABILITY

Strategically located warehouses and dealers across the USA stock **PALISADE-SA-HT™** synthetic roofing underlayment.

### COST

**PALISADE™ SA-HT** is competitively priced with leading, non-granular self-adhered, HT underlayments.

### 7. Warranty

PALISADE™ SA-HT is backed by a 25 yr limited warranty.

### 8. Maintenance

When installed in accordance with manufacturer's recommendations, PALISADE-SA-HT™ synthetic roofing underlayment will not require maintenance.

### 9. Technical Services

Support is provided by technically trained SDP representatives and technical service personnel, and backed by advanced R&D staff. For technical assistance, call toll free 866-747-4035 or email [info@sdp-products.com](mailto:info@sdp-products.com)

### 10. Filing Systems

Additional product information is available from the manufacturer.

#### Disclaimer

SDP Advanced Polymer Products Inc hopes the information here will be useful. It is based upon data and knowledge considered to be true and accurate and is offered for the users' consideration, investigation and verification, but we do not warrant the results to be obtained. Please read all statements, recommendations or suggestions in conjunction with our conditions of sale, which apply to all goods supplied by us. No statement, recommendation or suggestion is intended for any use which would infringe any patent or copyright.

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