



1. Product Name

- Grip-Rite® ShingleLayment™

2. Manufacturer

PrimeSource Building Products, Inc.
 1321 Greenway Drive
 Irving, TX 75038-2504
 (972) 999-8500
 (800) 676-7777
 www.grip-rite.com
 www.primesourcebpb.com

3. Product Description

BASIC USE

Grip-Rite® ShingleLayment™ is an ICC-ES evaluated, synthetic steep slope roofing underlayment that delivers the performance of synthetic underlayment with the finished appearance of a shingled roof. Comprised of a coated woven polypropylene, engineered to reduce leaks caused by wind-driven rain penetrating primary or damaged roof systems, Grip-Rite ShingleLayment provides high tensile and tear strength for wind resistance and withstands UV exposure for up to 180 days.

Grip-Rite ShingleLayment can be used under shingles, battered tiles, metal, slate, wood shake and shingle, simulated slate and simulated shake prepared roof coverings as an alternative to ASTM D226, Type I or Type II and ASTM D4869 asphalt felts. It is also suited for use as a temporary cover for exposed roof systems.

COMPOSITION & MATERIALS

Grip-Rite ShingleLayment synthetic underlayment is a lightweight, woven polypropylene underlayment coated with a non-skid thermoplastic polyolefin (TPO).

SIZES

Grip-Rite ShingleLayment has an 8 mil (0.2 mm) nominal thickness and weighs 2.8 lb per 100 ft² (137 g/m²).

Packaging options include:

- 4' x 250' (1.2 x 76.2 m); 35 rolls per pallet
- 4' x 100' (1.2 x 30.48 m); 28 rolls per carton



Grip-Rite ShingleLayment Shingle Pattern White

COLORS

Grip-Rite ShingleLayment roofing underlayment is available in a selection of colors and prints:

- Shingle Pattern Desert Tan
- Installer Print Desert Tan
- Shingle Pattern White
- Installer Print White

BENEFITS

- Offers attractive finished appearance with patent-pending shingle print pattern
- Provides an energy saving white emissive layer to reduce heat penetration and work surface temperature
- Minimizes wind and water infiltration for increased roofing efficiency
- Lightweight polypropylene is easy to install and provides better coverage than felt
- Resists UV degradation, permitting up to 6 months of UV exposure without deterioration
- Lightweight, easy to handle and tear resistant
- Utilizes light colors to reduce fabric expansion and contraction, in turn reducing nail hole elongation
- Unrolls and cuts easily, with printed nail pattern to simplify installation
- Contains no asphalt

LIMITATIONS

- Grip-Rite ShingleLayment synthetic underlayment is not designed to be a primary roof covering. Exposure beyond 60 days without final roof covering may subject the sheet to jobsite abuse, chemical exposure and severe weather
- Grip-Rite ShingleLayment is not intended for use as an installation grid for final roofing surface shingles
- Grip-Rite ShingleLayment synthetic underlayment must not be used in any exposed application, such as crickets, exposed valleys or in exposed roof to wall details
- Minimum roof pitch is 2:12 (9.4 degrees)

4. Technical Data

APPLICABLE STANDARDS

ASTM International (ASTM)

- ASTM D146 Standard Test Methods for Sampling and Testing Bitumen-Saturated Felts and Woven Fabrics for Roofing and Waterproofing
- ASTM D226 Standard Specification for Asphalt-Saturated Organic Felt Used in Roofing and Waterproofing

- ASTM D228 Standard Test Methods for Sampling, Testing, and Analysis of Asphalt Roll Roofing, Cap Sheets, and Shingles Used in Roofing and Waterproofing
- ASTM D828 Standard Test Method for Tensile Properties of Paper and Paperboard Using Constant-Rate-of-Elongation Apparatus
- ASTM D1938 Standard Test Method for Tear-Propagation Resistance (Trouser Tear) of Plastic Film and Thin Sheeting by a Single-Tear Method
- ASTM D1970 Standard Specification for Self-Adhering Polymer Modified Bituminous Sheet Materials Used as Steep Roofing Underlayment for Ice Dam Protection
- ASTM D4533 Standard Test Method for Trapezoid Tearing Strength of Geotextiles
- ASTM D4586 Standard Specification for Asphalt Roof Cement, Asbestos-Free
- ASTM D4869 Standard Specification for Asphalt-Saturated Organic Felt Underlayment Used in Steep Slope Roofing

ICC Evaluation Service, Inc. (ICC-ES) - ICC-ES AC188 Acceptance Criteria for Roof Underlayment

APPROVALS

- Service Report ESR-2945 - Complies with ICC-ES AC188, in accordance with International Building Code® (IBC) and International Residential Code® (IRC) standards for water resistance,
- Miami-Dade NOA #09-0527.01 - Approved for ASTM D226 Type I and Type II applications
- State of Florida - FBC # FL12510

TECHNICAL PROPERTIES

See Table 1.

5. Installation

Detailed installation procedures are available from PrimeSource Building Products. Installation must comply with the manufacturer's published installation instructions and applicable code.

Grip-Rite ShingleLayment synthetic underlayment must be installed in accordance with ASTM D226, D4869 or D6757 standards for the type of prepared roof covering to be installed.

PREPARATORY WORK

Handle and store this product according to the manufacturer's recommendations.

Re-fasten any loose decking panels and check for protruding nail heads. Sweep the substrate thoroughly to remove any dust and debris prior to application.

METHODS

Use corrosion-resistant plastic cap nails or staples with minimum nominal 1" (25.4 mm) heads. Cap staples should be limited to applications that will be covered by the final roofing system within 60 days, as the membrane will be less resistive to elements that may result in blow-off. Grip-Rite fasteners are recommended.

Install fasteners at a 90 degree angle to the deck, with flush contact between the plastic cap and upper surface of the underlayment. Where local code requires metal cap washers, Grip-Rite Tin-Tags® are recommended.

Install Grip-Rite ShingleLayment synthetic underlayment horizontally, with the printed side up and with 4" horizontal laps and 6" vertical laps. Horizontal laps should be in a shingle pattern, running with the flow of water.

Single Layer; Roof Slope > 4:12

Starting at the eave, fasten the eave edge 8" o.c., vertical laps 8" o.c., and 24" o.c. down the center. Continue upslope in a similar manner, with minimum 4" horizontal and 6" vertical laps and fasten 8" o.c. at horizontal laps and 8" o.c. at vertical laps and 24" o.c. down the center of the roll. Ensure vertical laps are staggered at least 3' apart. In high wind zones with 110+ mph, 3 second gust design wind speed, increase the fastening schedule to 4" o.c. at horizontal laps, 4" o.c. at vertical laps, and 24" o.c. down the middle of the roll in the field of the roof.

Double Layer; 2:12 < Roof Slope < 4:12

Starting at the eave, fasten the eave-edge of a half-width starter strip 8" o.c. and vertical laps 8" o.c. Continue upslope in a similar manner, with minimum 24" horizontal laps and 6" vertical laps. Fasten 8" o.c. along the low edge, 8" o.c. at vertical laps, and 24" o.c. down the center of the roll. Ensure vertical laps are staggered at least 3' feet apart. In high wind zones with 110+ mph 3 second gust design wind speed, increase the fastening schedule to 4" o.c. at horizontal laps, 4" o.c. at vertical laps, and 24" o.c. down the middle of the roll in the field of the roof.

Batten-secured Roof Cover Installations

When battens are installed over Grip-Rite ShingleLayment, the underlayment requires preliminary attachment prior to batten installation. Ensure that preliminary attachment does not interfere with batten locations. Where seams or joints require sealant or adhesive, use only high quality, low solvent,

Test/Property	Grip-Rite ShingleLayment
ASTM AC188 Accelerated aging UV exposure	Pass Pass
ASTM D828 Tensile Strength (lb/ft/in)	
Control	116/113
After aging	116/99
After UV	117/94
ASTM D146 Breaking Strength (lb/ft)	
Control	118/116
ASTM D226 Breaking Strength Pliability	Pass
ASTM D4869 Breaking Strength Liquid water transmission	Pass
ASTM D228 Loss on heating	0.4%
ASTM D1928 Tear resistance (lb/ft)	15/16
ASTM D4533 Tear resistance (lb/ft)	48/43

asbestos-free roofing cement meeting ASTM D4586, Type I.

Install a leak barrier of ASTM D1970 or approved equal at vulnerable leak areas, including but not limited to eaves, valleys, rakes, skylights and dormers. At eaves and valleys, install the leak barrier prior to installation of Grip-Rite ShingleLayment. Along the rake, install Grip-Rite ShingleLayment leaving 6" - 8" of the deck exposed, and then install the leak barrier over the Grip-Rite and exposed decking. At other areas, install the leak barrier over the Grip-Rite ShingleLayment.

PRECAUTIONS

- Use caution when walking on roof deck and use OSHA compliant fall protection
- Depending upon roof pitch and surface conditions (wet, dusty, frost), the coefficient of friction may change and can become slippery. Use Caution
- Do not walk or stand on Grip-Rite ShingleLayment until it is attached to roof deck according to installation instructions
- Attic space must be properly ventilated in accordance with local building code

BUILDING CODES

Current data for building code requirements and product compliance can be obtained from the manufacturer's technical support specialists.



Installation must comply with the requirements of all applicable local, state and national code jurisdictions.

6. Availability & Cost

Contact the manufacturer for information regarding product distribution, pricing and local availability.

7. Warranty

Grip-Rite ShingleLayment synthetic roofing underlayment is offered with a 20 year limited warranty. For complete warranty information, contact PrimeSource Building Materials or visit the www.grip-rite.com website.

8. Maintenance

Maintenance procedures are not required for properly installed systems.

9. Technical Services

Technical assistance for Grip-Rite House-Wrap is available through the manufacturer. Contact PrimeSource Building Products, Inc. or visit the www.primesourcebp.com website.

10. Filing Systems

- SmartBuilding Index
- Additional product information is available from the manufacturer upon request.