

CARLISLE WIP 100

WATER & ICE PROTECTION

GRANULAR SURFACE

Self-Adhering Roofing Underlayment

PRODUCT DESCRIPTION

Carlisle Residential Water and Ice Protection (WIP®) 100 is used as a shingle underlayment on critical roof areas such as eaves, ridges, valleys, dormers and skylights. Carlisle Residential membranes protect roofing structures and interior spaces from water penetration caused by wind-driven rain and ice dams.

WIP 100 is a flexible rubberized asphalt, fiberglass-reinforced membrane with a granular surface that provides maximum skid resistance during installation.

FEATURES & BENEFITS

- **Moisture and Air Barrier:** WIP 100 protects the roof structure from water seepage caused by ice dams and wind-driven rains.
- **Self Sealing:** WIP 100 membranes seal around roofing nails, staples and screws.
- **Used to ensure the watertightness of the primary roofing system in critical areas.**
- **Self Adhering:** WIP 100 membranes bond directly to the roof substrate for fast and easy installation without the need for additional adhesives.
- **Skid Resistant:** WIP 100 features a unique granular skid-resistant surface for safe and easy installation.
- **Permanent Protection and Low Lifecycle Cost:** WIP 100 will not crack, dry out or rot and provides long-term waterproofing performance.
- **Aesthetically Pleasing:** WIP 100 is a concealed waterproofing system that will not detract from the architectural aesthetics of the primary roofing system.

APPLICABLE STANDARDS

- US-UL Classified
- 1997 Uniform Building Code™
- State of Florida Approved Product FSA# FL6782
- Miami-Dade County Product Control Approved
- ICC - ESR# 1556
- Meets ASTM D1970

INSTALLATION

General Information

Carlisle Residential offers six roofing underlayment products. The installation instructions are generic to all Carlisle Residential WIP membranes unless otherwise stated.

Weather Conditions

Carlisle Residential roofing underlayments are applied when the roof deck is dry and the substrate temperature is 40°F (4.4°C) or higher. At temperatures below 40°F, nailing or priming may be used to temporarily hold the membrane in place while adhesion develops. This product is designed to be covered with the primary roofing system and should not be exposed to sunlight for more than 30 days.

Substrate Preparation

Moisture: Substrate must be free of any moisture. If moisture is present, it may inhibit adhesion.

New Construction: Prepare the roof deck by removing all loose objects, dirt, dust or debris.

WIP 100: TECHNICAL DATA

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Physical Properties		
Surface	Black Granular	
Thickness	min. 55 mils	
Performance Properties	Test Method	Typical Values
Tensile Strength	ASTM D412	688 psi
Permeance	ASTM D1970	0.048 perms
Low Temperature Flexibility	ASTM D1970 (E-96)	No Visible Cracking or Delamination at -25°F
Peel Adhesion	ASTM D1970	30.3 lbf/ft
Elongation at Break	ASTM D1970	36%
Water Absorption	ASTM D1970	0.86%
Lap Adhesion	ASTM D1970	35.7 lbs/ft
Packaging		
Roll Size	3' x 33' (0.91 m x 10.2 m); 3' x 50' (0.91 x 15.24 m); 3' x 66' (0.91 m x 20.4 m)	
Shipping Weight	35lbs/50lbs/65lbs	
Rolls per pallet	42/20	

Re-roofing: Remove all old materials from the roof deck in the area to be covered with WIP roofing underlayment. Replace water-damaged sheathing and sweep roof deck thoroughly.

Priming: Priming is not required on clean, dry wood or metal surfaces but concrete masonry, and exterior gypsum board should be primed using the appropriate Carlisle Coatings and Waterproofing, Incorporated (CCW) Primer.

VALLEYS, HIPS & RIDGES

Cut WIP 100 roofing underlayment into manageable lengths. Align over the center of the valley, hip or ridge. Remove release film. Press the middle of the membrane first before working toward the edges. For open valleys, cover WIP roofing underlayment with metal valley liners.

EAVES & RAKES

Cut WIP roofing underlayment into 10-15' pieces. Remove 2-3' of release film and align the edge of the membrane, sticky side down, so it overhangs the drip edge by 3/8" (10 mm). Continue to remove release film and press as you move across the roof. Use a hand roller and/or hand pressure to press into place. Overlap end laps a minimum of 6". WIP roofing underlayment should reach a point 2' inside the interior wall line. Local codes may require additional courses. If additional courses are required, the top lap must be at least 3.5".

Drip Edges: At the rake edge, apply WIP roofing underlayment first and place drip edge on top. At the eave, apply drip edge first and place WIP roofing underlayment on top of the drip edge so that it overhangs drip edge 3/8" (10 mm).

For standard installation details, follow the WIP detail drawings. For non-standard installation instructions, contact your local Carlisle Residential representative.

LIMITATIONS

- WIP 100 should be installed when air, roof deck and membrane temperatures are at or above 40°F (4.4°C).
- WIP 100 should not be left exposed to sunlight for more than 30 days.
- WIP 100 membrane should not be folded over the roof edge unless protected by a gutter or other flashing materials.
- The primary roof system must be ventilated to prevent excessive moisture build-up in the interior structure.
- Use caution during the installation of the membrane as it may become slippery when wet or covered with frost.
- WIP 100 should not be used under metal roofs.
- Not to be used in contact with flexible PVC material.

CCW CAV-GRIP

If using CCW-Cav-Grip spray application, apply with spray gun to product an evenly dispersed open swirl pattern and allow to dry for 30 minutes minimum. Primer has a satisfactory cure when it will not transfer when touched. Prime only areas to be waterproofed the same day. Reprime if area becomes dirty.

PACKAGING

1 square roll = 3' x 33' (0.91 m x 10.2 m) 35 pounds

1.5 square roll = 3' x 50' (.091 x 15.24 m) 50 pounds

2 square roll = 3' x 66' (0.91 m x 20.4 m) 65 pounds

Shipping Weight 35/50/65 lbs, Rolls per pallet 30/20.

CCW-702 Solvent-Base Primer - 5-gallon pails

CCW-704 Mastic - 30-oz quart cartridge, 5-gallon pails

Storage: WIP 100 roofing underlayment rolls should be stored on end, under cover and in areas where the temperature is between 40° and 100°F (4.4° and 38°C). Do not double-stack pallets.

LIMITED WARRANTY

Carlisle Residential (Carlisle) warrants this product to be free of defects in workmanship and materials only at the time of shipment from our factory. If any Carlisle materials prove to contain manufacturing defects that substantially affect their performance, Carlisle will, at its option, replace the materials or refund their purchase price.

This limited warranty is the only warranty extended by Carlisle with respect to its materials. There are no other warranties, including the implied warranties of merchantability and fitness for a particular purpose. Carlisle specifically disclaims liability for any incidental, consequential or other damages, including, but not limited to, loss of profits or damages to a structure or its contents, arising under any theory of law whatsoever.

The dollar value of Carlisle's liability and buyer's remedy under this limited warranty shall not exceed the purchase price of the Carlisle material in question.



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