



WATERPROOFING

CCW-711-90

Description

CCW-711-90 Sheet Membrane and Flashing is a 90-mil-thick composite consisting of a self-adhering rubberized asphalt membrane laminated to a high-strength, heat-resistant woven polypropylene mesh. A siliconized release liner prevents the material from sticking in the roll, and is easily removed for installation.

The factory-controlled quality ensures uniform thickness on the job, while the inherent waterproofing properties of the rubberized asphalt membrane provide an excellent water barrier. The woven mesh is designed to withstand high temperatures, allowing the membrane to become an integral part of the CCW-500R Hot-Applied and Vapor-Lock Waterproofing Systems.

CCW-711-90 Sheet Membrane and Flashing is primarily designed to be used in conjunction with CCW-500 Hot-Applied Membrane. It may be used as a preformed first course on difficult-to-coat substrates such as lightweight structural concrete. As a flashing, it provides a reinforced, uniform 90-mil layer on vertical surfaces while reinforcing cracks and joints.

Features and Benefits

- When used as a first course, this reinforced membrane provides a uniform, pinhole-free layer, providing an excellent substrate for the monolithic hot-applied layer.
- As a flashing for the CCW-500R System, the membrane combines the strength of the woven mesh with the self-adhering and elastomeric properties of the rubberized asphalt. This combination provides a durable, reinforced flashing.
- The membrane adheres tenaciously to CCW-500 Hot-Applied Membrane and to the primed substrate while the CCW-500 Hot-Applied Membrane bonds with the mesh, assuring a waterproof condition.
- The inherent durability and heat-resistant properties of the mesh ensures the integrity of the membrane when the CCW-500 Hot-Applied Membrane is installed over it.

Installation

Surface Preparation

Structural concrete shall be in place for 7 days minimum (14 days preferred) and shall be dry. Lightweight, air-entrained structural concrete shall be in place for 14 days minimum (21 days preferred) and shall be dry. Surface shall have a smooth finish and be free of voids, spalled areas, sharp protrusions, loose aggregate, laitance and form-release agents. Curing agents containing wax, oil or pigments must not be used. Only self-dissipating curing agents are acceptable. Forms should be removed as quickly as possible. If metal decking is used as a permanent form, the metal must be vented.

Temperature

Typical installation of CCW-711-70 can be performed when ambient and substrate temperatures are 40°F (4.4°C) and above. However, installation between 25°F (-3.9°C) and 40°F (4.4°C) may be performed if the CCW-711-70 is stored in a heated area until use and the laps are treated with CCW contact adhesive. Consult your local CCW Technical Representative for further information.

Primer

Apply CCW-702, CCW-702LV, CCW-AWP or CCW-550 Primer by spray or with a long nap roller at published recommended sq. ft. per gallon. At 75°F allow primer to dry one hour minimum. Prime only areas to be waterproofed the same day. Reprime if area becomes dirty. Primer has a satisfactory cure when it will not transfer when touched.

Full-Coverage Installation

Apply CCW-711-90 Sheet Membrane from low to high point, so that lap seams will shed water. Overlap edge seams 2½", end seams 5" and staggered. Snap a chalk line for a starting point. Pull back about two feet of release paper and place adhesive side of membrane along chalk line. As the roll is dispensed, simultaneously remove the release paper and maintain alignment along the chalk line. Immediately after installation, roll the membrane with a metal roller 18" to 24" wide weighing at least 100 lbs. CCW-500 Hot-Applied Membrane may be applied immediately. Prime CCW-711-90 if membrane surface becomes dirty before CCW-500 can be installed.

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Flashing Installation

Preferred Method - Apply CCW-702, CCW-702LV, CCW-AWP or CCW-550 Primer at the junction of horizontal surfaces, such as parapet walls, curbs, columns and penetrations through the deck, to the vertical height indicated on the drawings (8" minimum recommended). Apply 90 mils of CCW-500 membrane to cover primed areas. Install CCW-711-90 sheet membrane flashing into the first course of CCW-500 to cover the vertical section and extend flashing 6" onto deck surface. Flashings shall be covered by second lift of CCW-500.

Alternate Method - Install a 1½" x 1½", 45° cant of CCW-201 Sealant in all inside corners and around projections and penetrations. Allow sealant to cure overnight. Prime all areas to receive flashing. Apply CCW-711-90 to the height specified (8" minimum recommended). Final height shall be below the finished deck surface. Extend flashing 6" minimum onto the horizontal deck surface.

Terminations

Terminate membrane on vertical surfaces per Carlisle's 500-9 Details. Press terminating edge firmly in place with a hand roller, hammer handle or similar tool. Apply CCW-500 Hot-Applied Membrane to all terminating edges, T-joints and laps not covered by the CCW-500R system.

Note: Failure to use adequate pressure at terminating edges will result in a poor seal and potential leak. The use of mastic is not a substitute for a good seal.

Protection

CCW-711-90 Sheet Membrane must be protected from damage prior to installation of CCW-500. The applicator may install a temporary protection course of CCW Protection Board-H or plywood walkways if required by jobsite conditions. This protection course must be removed before installation of the CCW-500.

Precautions

- Do not use in areas where membrane will be subject to continuous exposure to sunlight.
- Do not apply primer or membrane to damp, frosty or contaminated surfaces.
- Do not use over sealants containing coal tar or polysulfides. If these materials are present, they must be removed and the surfaces thoroughly cleaned.
- Do not apply CCW-500 Hot-Applied Membrane in excess of 350°F to woven polypropylene mesh surface.

Warnings and Hazards

Avoid contact with eyes and skin. Wash thoroughly after use. Avoid breathing vapors from the primer and mastic. Use these only in areas with adequate ventilation. Refer to MSDS for important warnings and safety information.

Storage

CCW-711-90 rolls should be stored on end, under cover, and in areas where the temperature is between 40°F and 100°F (4.4° and 38°C). Do not double stack pallets.

Packaging

Roll Size	Rolls/Pallet
12" x 45' (45 sq. ft.)	48 rolls/pallet, 51 lbs/roll
18" x 45' (67.5 sq. ft.)	48 rolls/pallet, 40 lbs/roll
24" x 45' (90 sq. ft.)	25 rolls/pallet, 58 lbs/roll
36" x 45' (135 sq. ft.)	24 rolls/pallet, 75 lbs/roll

Typical Properties

Property	Method	Results
Tensile Strength	ASTM D882	53 lb/in
Elongation	ASTM D882	350%*
Permeance	ASTM E96 (B)	0.1 perms
Pliability	ASTM D146	Pass @ -25°F, ¼" mandrel
Puncture Resistance	ASTM E154	200 lbs

* % Elongation to failure of rubberized asphalt membrane

Limited Warranty

Carlisle Coatings & Waterproofing Incorporated (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 its 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.