



CCW-711

PRE-PAVE SHEET MEMBRANE WATERPROOFING SYSTEM

DESCRIPTION

CCW-711 is a 65 mil thick composition 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 sheet membrane is available in two convenient widths of 36" and 48". The factory controlled thickness assures uniform thickness on the job, while the inherent waterproofing properties of the rubberized asphalt membrane provide an excellent water barrier.

TYPICAL USE

The CCW-711 Pre-Pave Sheet Membrane Waterproofing System is especially designed to be used as a waterproofing membrane on the structural slab of bridge decks and parking decks that are to be overlaid with asphalt paving & repaving existing roadways. CCW-711 Pre-Pave Sheet Membrane Waterproofing System will protect reflective cracking in the asphalt overlay while helping to retard structures from damage by water and deicing salts.

ADVANTAGES

- Inherent toughness of mesh assures the integrity of the membrane, allowing construction traffic on the installed membrane immediately.
- Paving can begin immediately after installation of the CCW-711 Pre-Pave Sheet Membrane. This includes the driving of asphalt trucks and paving machines on top of the overlay.
- The combination of woven mesh and elastomeric membrane ensures both the strength and flexibility to span moving cracks through seasonal temperature extremes.
- The membrane offers complete and interlaminary adhesion by bonding to both the substrate and the hot asphaltic overlay.
- Small punctures in the membrane will self-seal. Tears or other damage can quickly and easily be repaired.

PACKAGING

CCW-711 is sold in rolls of (one roll per box):
 12" X 100' roll (100 ft²), 48 boxes per pallet
 18" X 100' roll (150 ft²), 36 boxes per pallet
 24" X 100' roll (200 ft²), 24 boxes per pallet
 36" X 60' roll (180 ft²), 25 boxes per pallet

CCW-550 Primer and CCW-704 Mastic
 5 gallon pails (45 pails per pallet)

INSTALLATION

Surface Preparation: New concrete shall be in place for 7 days (minimum) and shall be dry. Surface shall have a smooth finish and be free of voids, spalls, sharp protrusions, loose

TECHNICAL DATA

PROPERTY	TEST METHOD	RESULTS
Thickness	-	65 mils
Tensile	ASTM D 882	53 lb./in.
Elongation*	ASTM D 882	350%
Permeance	ASTM E 96 (B)	.05 perms
Pliability	ASTM D 146 180° bend	Passes @ -25°F .063" mandrel
Puncture	ASTM E 154	200 lb. (min.)

* % of elongation to ultimate failure of rubberized asphalt membrane

aggregate and form release agents. Curing agents containing wax, oil or pigment must not be used. Forms should be removed as quickly as possible.

In the event of rain, concrete must be allowed to dry before primer is applied. For optimum results, CCW-711 should be applied when air and surface temperatures are above 40°F.

Bridge Deck Preparation

Method One (Preferred): Mill all loose unbonded asphalt overlay from the existing deck. Place a bituminous/sand or fine aggregate mixture as a leveling course on the deck. Use CCW-201 Polyurethane Sealant as a cant strip at the intersection of the deck and curb or parapet wall for the transition from the horizontal to the vertical.

Place the CCW-711 membrane from the low to the high point of the deck, so that laps shed water. Overlap all edges at least 2-1/2", stagger end laps and place such that overlaps are in the direction of the paving.

Place a 12" wide strip of CCW-711 along the inside corner of the vertical curb to a height just below the surface of the asphaltic overlayment, extending at least 6" onto the horizontal CCW-711 membrane. Place a bead of CCW-704 Mastic on the top edge of the strip. The curb or parapet wall should be primed if weather conditions make it necessary.

The membrane may be rolled in place with a rubber tire roller before tack coat is applied.

Method Two: Remove all old coating from the concrete by brush blasting. Repair all concrete defects. Prime the deck with CCW-550 or CCW-702 primer during the morning hours. Place a CCW-201 cant strip at the intersection of the deck and curb or parapet wall.

Wait until in-gassing of the deck occurs, usually afternoon when the deck is cooling, before placing membrane. Place the CCW-711 membrane from the low to the high point of the deck, so that laps shed water. Overlap all edges at least 2-1/2", stagger end laps and place such that overlaps are in the direction of the paving.

Place a 12" wide strip of CCW-711 along the inside corner of the vertical curb to a height just below the surface of the

asphaltic overlayment, extending at least 6" onto the horizontal CCW-711 membrane. Place a bead of CCW-704 Mastic on the top edge of the strip. The curb or parapet wall should be primed if weather conditions make it necessary.

The membrane may be rolled in place with a rubber tire roller before tack coat is applied.

Parking Deck Preparation

Terminations: Install a 1-1/2" CCW-201 Sealant cant into the inside corner of the curb or parapet and the deck. Allow sealant cant to cure overnight. Apply flashing at curbs to a height just below the surface of the asphaltic overlayment and extend the flashing strip at least 6" onto the horizontal deck surface. For decks with two section drains, install a 3 ft. by 3 ft. sheet centered over the drain and terminate sheet under the clamping ring. Apply final sheet membrane over the flashing and seal the edges with CCW-704 Mastic.

Joints and Cracks: Apply primer and allow to dry. Apply a 12 inch wide strip of CCW-711 Pre-Pave Membrane over all cracks and non-working joints. Apply a double layer of CCW-711 Pre-Pave Membrane over expansion joints in the structural slab. Steel finger joints and other expansion joints should be placed at the level of the asphalt concrete overlayment.

Priming: Stir the primer thoroughly. Apply by spray or with a long nap roller to all concrete surfaces in an even coat. For the CCW-550 apply at 400 to 600 ft² per gallon. For the CCW-702 apply at 300 to 350 ft² per gallon. At 75° F allow primer to dry 1 hr. minimum, 8 hrs. maximum. Primer has a satisfactory cure when surface is tacky, but does not transfer when touched. If CCW-711 Pre-Pave Membrane is not applied within maximum dry time, re-prime. When applying CCW-711 Pre-Pave Membrane to an asphalt surface, primer is not required but surface must be free of dirt, moisture or other contamination.

Application: Apply CCW-711 Pre-Pave Membrane from low to high point, in a shingle fashion so that laps will shed water. Overlap all edges at least 2-1/2", placed such that overlaps are in the direction of the paving. End laps shall be staggered. Place sheet membrane carefully so as to avoid wrinkles and fishmouths. After installation, roll with a metal roller wrapped with a resilient material 24" wide and weighing at least 100 lbs. or with a rubber tired roller. Seal all terminating edges and 'T' joints with CCW-704 Mastic.

Asphalt Overlayment Placement

Repairs: Before paving begins, inspect all membrane for tears, punctures, fishmouths, air bubbles or voids due to misalignment at seams. Remove damaged membrane. Prime exposed concrete and allow primer to dry. Apply new section of CCW-711 Pre-Pave Membrane to primed concrete extending onto adhered membrane 6" on all sides. Firmly roll repair section to ensure a good seal. Apply CCW-704 Mastic to terminating edges of patch.

Slit fishmouths and overlap the edges. Place CCW-711 Pre-Pave Membrane over the repair and extend 6" in all directions. Firmly roll repair section to ensure a good seal. Apply CCW-704 Mastic to the terminating edges of patch.

Apply Overlayment: Prior to applying overlayment, spray anionic asphalt emulsion (or equal) tack coat over mesh. CCW-711 Pre-Pave Sheet Membrane should be covered over with asphaltic overlayment in the same day as membrane installation. The temperature of the asphaltic overlayment at the point of application shall be 275°F minimum, 325°F maximum. Asphaltic overlayment shall be compacted to a minimum of 2 inch thick, at 275° - 285°F. A wearing course may be applied at the discretion of the engineer.

Asphaltic overlayment must not be applied if the CCW-711 Pre-Pave Sheet Membrane is wet.

Pneumatic tire equipment is recommended. Equipment must be continuously inspected to ensure tracks or tires are free of burrs, stones or sharp projections which could damage the membrane.

LIMITATIONS

- 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 frozen concrete.
- Best results are obtained when membrane is installed at temperatures above 40° F.
- Do not use over sealants containing coal tar or polysulfides.

WARNINGS AND HAZARDS

CCW-550 and CCW-704 contain flammable and combustible solvents. Avoid exposure to open heat and flame. Avoid breathing vapors. Use only in areas with adequate ventilation. Refer to MSDS for important warnings and product information.

STORAGE

CCW-711 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 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 effect 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.