



# CCW-525

## LIQUID APPLIED WATERPROOFING MEMBRANE

### DESCRIPTION

CCW-525 is a liquid-applied, single component, moisture cured, elastomeric, coal-tar free, modified polyurethane which cures to form a flexible, monolithic, waterproof membrane on vertical or horizontal surfaces, above or below grade. The membrane has tenacious adhesion to concrete substrates preventing lateral water migration. The inherent toughness and resilience of CCW-525 Membrane enables it to bridge structural or shrinkage cracks which may develop in the substrate.

### TYPICAL USES

CCW-525 is available in two viscosities (H & V) for application to horizontal and vertical surfaces. Typical applications are between structural slab and wearing course on parking garages, plaza decks, balconies, roof decks, terraces, mechanical equipment rooms, fountains, wetrooms, malls, kitchens and shower stalls. CCW-525 is ideally suited for waterproofing on below grade foundation walls, tunnels, planters and other areas where a seamless, elastomeric waterproofing is required.

### LIMITATIONS

- Do not apply CCW-525 to a wet, damp or contaminated surface.
- Not recommended for exposed or wearing surfaces.
- If metal pan is used for concrete form, the metal pan must be vented.
- Surface temperature must be above 40° F and rising.

### APPLICABLE STANDARDS

ASTM Specification: ASTM C 836-95

### PACKAGING & TYPES

5 gallon pails and 55 gallon drums

CCW-525-H = Horizontal grade (self leveling)

CCW-525-V = Vertical grade (roller applied)

Carlisle DCV Polyester Reinforcing Fabric = 40" X 324'

### SHELF LIFE

When stored at temperatures below 80°F, shelf life is twelve months in the original, unopened container.

### TECHNICAL DATA

PROPERTY	TEST METHOD	RESULTS*
Composition	—	Modified Polyurethane
Color	—	Black
Tack Free Time @ 75° F (24°C), 50% RH.		16 hours
Cure Time @ 75° F (24°C), 50% RH.		36 hours
Solids Content	ASTM D 2369	82% (+/- 2)
Hardness (H)	ASTM D 2240	30 Shore A (min.)
(V)	ASTM D 2240	30 Shore A (min.)
Elongation (H)	ASTM D 412	575%
(V)	ASTM D 412	600%
Tensile (H)	ASTM D 412	250 psi
(V)	ASTM D 412	400 psi
Permeability(H)	ASTM E 96	0.07384 perms
(V)	ASTM E 96	0.07176 perms
Adhesion to Primed Concrete		
(H)	ASTM D 903	14.9 lbs/in (12.9kg/cm)
(V)	ASTM D 903	19.0 lbs/in (16.4kg/cm)

\* Individual lots may vary +/- 10% from Typical value

### WARNINGS AND HAZARDS

Combustible liquid and vapor. Keep away from heat and flame. Use only with adequate ventilation. Avoid contact with the eyes or skin, especially open breaks in the skin. In the event of skin contact, remove immediately and wash with warm soapy water. Refer to MSDS for important warnings and product information.

### INSTALLATION

**Surface Preparation:** New concrete shall be water cured, trowel finished, followed by a light, hair broom and in place for 14 days minimum, 28 days preferred. If curing compounds are required, they shall be of the self dissipating type and shall be approved by Carlisle. Surfaces shall be structurally sound, dry, and free of oil, grease, dirt, laitance, curing or release agents and other contamination which may harmfully affect the adhesion of the membrane. Mortar joints on block walls shall be struck flush with the block surface.

Remove splatters, fins, ridges or other projections to provide a smooth, level surface. Fill tie rod holes, honey combs, rock pockets, spalls or other voids and indentations with non-shrink grout.

Saw cut moving cracks greater than 1/16" in width to 1/4" wide X 1/4" deep.

Grind or fill (as required) surface at cold joints where each pour is at a different plane, to provide a smooth and level surface. Clean metal to expose a bright finish.

*Detail work:* Clean joints and saw cut cracks. All moving cracks over 1/16" wide and all expansion joints less than 1" wide shall be cleaned, primed, fitted with a backing rod and caulked with Carlisle Polyurethane Sealant as recommended by the data sheet. For larger joints, contact Carlisle representative.

Apply a 1 inch, 45 degree angle sealant cant at the juncture of all vertical and horizontal surfaces including at pipes, vents and other projections.

Apply a bondbreaker tape (or wax) over the Sealant installed in expansion joints and saw cut cracks. Width of bondbreaker shall be three times joint width.

Apply a 4" - 6" wide stripe coat of CCW-525 V Membrane over all sealed cracks, joints and over all hairline cracks and cold joints. Apply a stripe coat of CCW-525 V over sealant cants and up the vertical wall to the height called out on the drawings, (minimum 8" recommended) and onto the horizontal deck 4" to 6". Stripe coat shall be 45 ± 5 mils thick. Allow stripe coats to cure over night.

*Priming:* Primer is not required for adhesion to dry, non-porous concrete. However, if pinhole and blister problems occur as a result of air and/or moisture vapors emitted from the concrete and environmental conditions, it is recommended that the surface be primed with CCW-557 Primer. Refer to CCW-557 data sheet for information on the use of this product.

Apply CCW-559 or CCW-557 Primer to metal surfaces immediately after sanding and cleaning. Primer must be allowed to stand for 15 minutes after mixing. Allow primer to cure for 1 hour minimum. Primer is sufficiently cured when it will not transfer when touched. In the event primed surface becomes dirty, reprime. Prime only an area that can be covered in one day.

*Application:* Wipe all detail work with a cloth wet with xylene solvent and allow to dry.

For Horizontal: Apply CCW-525 over cleaned, primed flange of drains, taking care not to fill weep holes. Using a notched squeegee, apply CCW-525-H at 25 sq. ft. per gallon or as required to obtain a 60 mil thickness, to the entire area to receive waterproofing, including over all detail coats.

For Vertical: Using a roller, apply CCW-525-V in two coats at a rate of 50 sq. ft. per gallon or as required to obtain 30 mils per coat for a final thickness of 60 mils.

For reinforced systems: Apply CCW-525-H at 25 sq. ft. per gallon or as required to obtain a 60 mil thickness to the entire area to receive waterproofing, including over all detail coats. Use a 1/4" notched squeegee or flat squeegee with guide pins to achieve a uniform thickness. Immediately install

Carlisle DCV white polyester reinforcing fabric. Install carefully to avoid wrinkles. In the event of wrinkles or fishmouths, cut the fabric and overlap the excess to avoid trapped air. Once the coating has cured to a firm consistency, apply an additional coat of CCW-525 at 25 sq. ft. per gallon or as required to obtain a 60 mil thickness, extending past the edge of the fabric to completely encapsulate it.

*Protection:* The membrane must be protected from damage by future operations and other trades. The applicator shall install protection material applicable to jobsite conditions, to protect the membrane. Protection course may be CCW Protection Board for either vertical or horizontal surfaces.

Install protection course on vertical walls immediately after membrane has cured (36 hrs. at 75°F). Install protection course on horizontal application immediately following successful flood testing. If flood test is delayed, install a temporary covering to protect the membrane from other trades.

*Flood Test:* After membrane has cured 36 to 72 hours, plug drains and provide necessary barriers to contain flood water. Flood deck with a 1" head of water and allow to stand for 24 hours. Check for leaks and immediately make repairs if required. Retest after any repairs have been made.

*Clean Up:* Before material cures, clean adjacent areas to remove stains or spills and clean tools with; toluene or xylene. Do not wash off skin with solvents.

CAUTION: Xylene and toluene are combustible and flammable solvents. Observe all regulations with regards to working with flammable materials. Workmen must wear appropriate protective clothing, eye and skin protection and NIOSH approved breathing apparatus.

## 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.