VEHICULAR TRAFFIC DECK SYSTEM CCW-5123

DESCRIPTION

The CCW-5123 Deck Coating System is a liquid-applied, abrasion resistant waterproofing system suitable for surfaces subject to vehicular and heavy pedestrian traffic. It consists of three polyurethane components, each designed to provide specific, long lasting properties, that together form a system with optimum performance. The Top Coat is available in nine fade-resistant colors.

TYPICAL USE

The CCW-5123 System is applied to concrete decks to prevent water from entering occupied space below, protect the surface to which it is applied from damage by water and salts and provide a slip-resistant, attractive wearing surface.

LIMITATIONS

- Do not apply primer or coatings to a frosty, damp or wet surface.
- Do not proceed with coating application if temperature is below 40°F or if rain is imminent within 8 hours after application. Cure time is slower in cool weather.
- Polyurethane coating cure times may be significantly faster than listed when temperature and/or humidity are high.
- If metal pan is used for concrete form, the pan must be vented. Not for use on grade.
- If deck has a between slab membrane, consult with Carlisle representative.
- Some high performance tires can stain the deck coating system. Carlisle cannot assume responsibility for stains from organic exposures, including staining deposits by high performance tires.

PACKAGING

CCW-501 Base Coat, CCW-502 Intermediate Coat and CCW-503 Top Coat:
5 gallon pails and 55 gallon drums.

CCW-501-T Detail Coat:
5 gallon pails

Shelf life12 months from date of manufacture when stored at 85°F or below.

APPLICABLE STANDARDS

ASTM C 957-93
UL 790 Class A

TOP COAT COLORS

Standard colors in stock include: Stone Gray, Colonial Gray, Beige, Desert Tan and Arizona Tan. Additional standard colors and custom colors are available, minimum orders may apply.

TYPICAL PROPERTIES*

CCW-501 BASE COAT

Solids Content	ASTM C 1250	85%
Hardness, Shore A	ASTM D 2240	63
Tensile Strength	ASTM D 412	850 psi
Ultimate Elongation	ASTM D 412	625%
Tear Resistance, Die C	ASTM D 624	140 lb/in
Adhesion to Concrete	ASTM D-903	23 PLI
Low Temp. Flexibility	ASTM D-522	-65°F

CCW-502 INTERMEDIATE COAT

Solids Content	ASTM C 1250	80%
Hardness, Shore A	ASTM D 2240	82
Tensile Strength	ASTM D 412	2000 psi
Ultimate Elongation	ASTM D 412	425%
Tear, Die C	ASTM D 624	300 lb/in
Low Temp Flexibility	ASTM D-522	-65°F

CCW-503 TOP COAT

Solids Content	ASTM C 1250	72%
Hardness, Shore A	ASTM D 2240	91
Tensile Strength	ASTM D 412	3200 psi
Ultimate Elongation	ASTM D 412	190%
Tear, Die C	ASTM D 624	300 lb/in
Low Temp Flexibility and crack bridging**	ASTM C 957	Pass
Weather resistance	ASTM G 53	No chalking @ 2000 hrs
Abrasion resistance**	ASTM C 501	<50 mg.
Permeability**	ASTM E 96 (B)	<1.0 perms

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

WARNINGS AND HAZARDS

Before use refer to MSDS for important warnings and safety information. Use only in areas with adequate ventilation. Avoid breathing vapors. Keep away from heat and flame. Avoid contact with eyes and skin. In the event of skin contact, remove immediately and wash with warm, soapy water. Wear eye protection. Always wash hands before eating.

INSTALLATION

Surface should be properly sloped to drain freely and eliminate the ponding of water. The surface must be clean, dry and free of laitance, dirt, oil, grease or other contamination. Acceptable methods of cleaning are vacuum shotblasting, sandblasting, acid etching or mechanical grinding followed by the complete and thorough removal of any residue.

If metal decking is used as a permanent form, the metal must be vented. If the deck is cast over precast tees or slabs, control joints should be placed directly over all joints per detail DC-1B. Surface shall have a steel trowel followed by a fine hair broom finish.

New concrete must be in place for 28 days minimum. Curing compounds must be of the self-dissipating type and be approved by the Carlisle representative. Old concrete must be structurally sound. Spalled areas shall be filled. Loose or deteriorated concrete shall be replaced. Abrade steel trowel finish by mechanical or chemical means. In the event of existing coatings, contact Carlisle.

Refer to Carlisle DC series details for proper detailing of cracks, drains, angle changes, parking bumpers, etc.

Saw cut cracks greater than 1/16" wide to 1/4" wide by 1/4" deep. Grind off high spots, ridges and fins. Fill all low spots, voids, rock pockets, excessively rough and spalled areas with approved non-shrink grout or epoxy patching compound.

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 PT-304 or CCW-201 Sealant as recommended by the data sheet. For larger joints, contact Carlisle representative. Tool sealant flush in joints up to 1/2" wide, slightly concave on wider joints.

Any required metal or neoprene flashings should be installed at this time.

Apply a 1" face, 45 degree cant of sealant at all angle changes, including projections through the deck, walls, curbs, etc. Allow sealant to cure thoroughly.

Mix primer and apply per instructions below to all areas to receive a detail coat. Extend primer 2" past area to receive detail coat to allow primer tie-in during deck coating installation. Allow primer to dry 1 hour minimum, 8 hours maximum.

Apply a stripe coat of CCW-501-T Detail Coat, 30 mils thick, 6" wide, centered over all sealant cants, sealed cracks, hairline cracks, control joints, expansion joints (less than 1/2" wide) and cold joints. Apply a stripe coat of CCW-501-T Detail Coat, 30 mils thick, 6" wide, centered over any transition between dissimilar materials, such as concrete to metal flashings, concrete to wood or wood to metal, and reinforce with CCW Reinforcing Fabric. Allow the stripe coat to cure over night (16 hours minimum). **Caution:** *Ensure that all sealant is thoroughly cured. Uncured sealant may affect the cure of the coating.*

PRIMING: Stir each side separately to ensure that no separation has occurred then mix all of Part A with all of Part B. Use a mixing paddle in a slow speed electric drill motor. Avoid air entrapment. Mix 2 to 3 minutes until a homogenous blend is achieved. Wait 15 minutes before applying.

Apply primer at a rate of 300 square feet per gallon. Avoid puddles or ponding the primer and do not apply primer over stripe coats.

Allow primer to dry for 1 hour minimum, 8 hours maximum. Primer is sufficiently dry when it is somewhat tacky but will not transfer when touched. In the event coating is not applied within the maximum time, reprime.

BASE COAT APPLICATION: Do not apply coating over joints greater than 1" wide. Wipe stripe coats to remove any dust or contamination. Apply CCW-501 in one uniform coat at the rate of one gallon minimum per 60 square feet or as needed in order to obtain a minimum thickness of 26 wet mils. Backroll for even coverage. Allow the base membrane to cure 16 hours minimum at 75° F.

INTERMEDIATE COAT APPLICATION: Apply CCW-502 in one uniform coat at the rate of one gallon minimum per 100 square feet or as needed in order to obtain a minimum thickness of 16 wet mils. Immediately broadcast 16 mesh silica sand into the wet CCW-502 at a rate of 10 to 12 lbs. per 100 sq. ft. Backroll to encapsulate the sand. Allow to cure 16 hours minimum at 75°F.

EXTREMELY HIGH WEAR AREAS such as ramps, tight turns and entrance/exit gates: After installation of CCW-502 as above, apply an additional coat of CCW-502 at the rate of one gallon minimum per 100 square feet. Uniformly broadcast 20 mesh sand over the surface at 15 to 25 lbs. per 100 sq. ft.

TOP COAT APPLICATION: Apply CCW-503 in one uniform coat at the rate of one gallon minimum per 100 square feet or as needed in order to obtain a minimum thickness of 16 wet mils. Backroll for even coverage. Allow the CCW-503 to cure at least 48 hours before opening the deck to vehicular traffic.

LIMITED WARRANTY

Carlisle Coatings and 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 material or refund the 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.

CARLISLE
Coatings & Waterproofing

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