

CCW-500 for Roof Garden Applications



Overview

Versico's CCW-500 Hot-Applied Waterproofing Membrane is a single-component, rubberized asphalt compound that forms a tough, flexible, thick waterproofing membrane. CCW-500 adheres tenaciously to virtually any sound surface, vertical or horizontal, to ensure water will not migrate beneath the membrane in the event of physical damage. The fast setup time speeds the completion of the waterproofing. CCW-500 Hot-Applied Liquid Membrane is applied in a thick, monolithic coating utilizing CCW Reinforcing Fabric, which allows for a wide variety of substrate conditions.

CCW-500 is used for waterproofing split-slab construction projects and is especially suited as the waterproofing membrane on roof decks using inverted roof membrane assemblies and green roof systems. When used in conjunction with Versico's VersiFleece® AC TPO membrane, CCW-500 assists in producing an extremely robust waterproofing assembly.

Features and Benefits

- Monolithic membrane ensures a tightly waterproofed roofing assembly
- Up to 30% pine pitch content is environmentally friendly and increases the working time of the material
- When used with 135-mil VersiFleece AC TPO membrane, produces an unparalleled 315 mils of waterproofing
- Eliminates the need for protection board and root barrier when capped with 135-mil VersiFleece AC TPO

Coverage Rate

The following is a guide to estimate the amount of materials required for various membrane thicknesses. Approx: 11.39 lbs/gallon.

- 215 mils applied = 1.53 lbs/ft² = 7.46 ft²/gal
- 180 mils applied = 1.28 lbs/ft² = 8.92 ft²/gal
- 125 mils applied = 0.89 lbs/ft² = 12.83 ft²/gal
- 90 mils applied = 0.64 lbs/ft² = 17.83 ft²/gal

Application

Surface Preparation

New concrete shall be water cured with a light, hair broom finish, and in place for 14 days minimum, 21 days preferred. Surface shall be structurally sound, dry, and free of dust, dirt, frost, laitance, non-approved curing agents or other contamination that may affect adhesion of the membrane.

Application

Blocks of CCW-500 shall be melted in a twin wall kettle with continuous agitation. Caution: Do not exceed maximum safe operating temperature of 375°F (for best results, use at 350°F).

Apply a thin, even coat of CCW-550 Primer to the entire surface to achieve waterproofing. At the juncture of all vertical sections with the deck surface, such as parapet walls, columns and all projections through the deck, apply a thin, even coat of CCW-550 Primer to the vertical section to the height indicated on the drawings (8" minimum recommended). Apply primer at a rate of 500 ft²/gallon. Allow the primer to dry. Note: Membrane will not properly adhere to wet primer. Penetrations and flashing details per manufacturer's published drawings.

Apply CCW-500 Hot-Applied Membrane to the primed vertical and horizontal surfaces, including all previously detailed areas. For vertical wall applications of 180 mils, install two coats of CCW-500 with each coat being applied to achieve 90 mils per coat. While the first coat is still warm and tacky, install CCW-500 Reinforcing Fabric and then apply second coat of CCW-500. For horizontal applications of 215 mils, install two coats of CCW-500 with the first coat being applied to achieve 90 mils and the second coat being applied to achieve 125 mils. While the first coat is still warm and tacky, install CCW-500 Reinforcing Fabric and then apply second coat of CCW-500. While the second coat is still warm and tacky, install 135-mil VersiFleece AC TPO.

REVIEW CURRENT VERSICO SPECIFICATIONS AND DETAILS FOR SPECIFIC APPLICATION REQUIREMENTS.

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Precautions

- Do not use on exposed or wearing surfaces.
- Not recommended over lightweight insulated concrete.
- If metal pan is used for concrete form, the vented metal pan is preferred.
- Consult with Versico's representative before using CCW-500 on any type of lightweight concrete, concrete with curing compounds or additives or decks that have existing waterproofing materials.
- Do not apply below 0°F or to damp, frosty or contaminated surfaces.
- Use with adequate ventilation. Workers must use proper protection to prevent burns. Refer to the MSDS for important warnings and product information.

LEED® Information

Pre-consumer Recycled Content	0%
Post-consumer Recycled Content	26%
Manufacturing Location	Wylie, TX
Solar Reflectance Index	N/A

Typical Properties and Characteristics

Physical Property	Test Method	Typical Value
Solids Content	ASTM D1353	100%
Flow	ASTM D5329	@ 140°F, 0 mm
Penetration (1/10 mm)	ASTM D5329	@ 77°F=72 @ 122°F=135
Flash Point	ASTM D92	464°F (240°C)
Water Vapor Permeance	ASTM E96 (E)	0.012 perms
Elongation	ASTM D412	>1,000%
Toughness	CGSB-37.50-M89	11.7J
Ratio of toughness to peak load	CGSB-37.50-M89	0.056
Adhesion	CGSB-37.50-M89	Pass
Viscosity	CGSB-37.50-M89	10 seconds
Water Absorption	CGSB-37.50-M89 max 0.35g [gain]	96 hrs=0.0 g
Pinholing	CGSB-37.50-M89	No visible pinholes
Low temperature flexibility	CGSB-37.50-M89	Pass
Low temperature crack bridging	CGSB-37.50-M89	Pass
Heat stability in viscosity, penetration, flow or low temp flexibility after aging	CGSB-37.50-M89	Pass
Resiliency	ASTM D3405	>60%
Resistance to mild acids	–	No effect
Minimum ambient temperature for application	–	0°F
Acid Resistance	ASTM D896	50% Sulfuric Acid w/o blistering, deterioration, delamination and re-emulsification
Sodium Chloride Resistance	ASTM D896	1 Passed 20% Sodium Chloride w/o blistering, deterioration, delamination and re-emulsification
Fertilizer Resistance	ASTM D896	Passed 30/10/10 Fertilizer w/o blistering, deterioration, delamination and re-emulsification

Typical properties and characteristics are based on samples tested and are not guaranteed for all samples of this product. This data and information is intended as a guide and does not reflect the specification or specification range for any particular property of this product.



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