



## CCW 500R MATERIAL CERTIFICATION

This is to certify that the Carlisle Coatings & Waterproofing 500R Hot Applied Liquid Membrane; a single component, rubberized asphalt compound that forms a tough, flexible, thick, waterproofing membrane that adheres tenaciously to virtually any sound surface, vertical or horizontal to assure water will not migrate beneath the membrane in the event of physical damage. The CCW Reinforcing Fabric, CCW Primer or Contact Adhesives, CCW-711, EPDM Flashings, Neoprene Flashings, CCW-201 Sealant, CCW Protection Board, CCW MiraDRAIN Drainage Composite are part of the CCW System and are recommended by Carlisle Coatings & Waterproofing. CCW 500R is Made in the USA.

Carlisle Coatings & Waterproofing manufactures CCW 500R to comply with the following published ASTM and CGSB typical property values and meets the specification requirements:


CCW 500R - Property	Method	Typical Value
Solids Content	ASTM D1353	100%
Flow	ASTM D5329	0 mm
Penetration (1/10 mm)	ASTM D5329	Control @ 77 ° F=74 Control @ 122 ° F= 116 Post Heating @ 77 ° F= 64 Post Heating @ 122 ° F= 106
Flash Point	ASTM D92	590°F (310°C)
Water Vapor Permeance	ASTM E96 (E)	1.3 ng/ Pa·s·m <sup>2</sup>
Toughness	CGSB-37.50-M89	14.7 (J)
Ration of toughness to peak load	CGSB-37.50-M89	0.080
Adhesion	CGSB-37.50-M89	Pass
Viscosity	CGSB-37.50-M89	Control 4 Post Heating 7
Water Absorption	CGSB-37.50-M89 max. 0.35g [gain]	+0.11 g
Pinholing	CGSB-37.50-M89	0 mm
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 D 3405	>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 or re-emulsification
Sodium Chloride Resistance	ASTM D896	Passed 20% Sodium Chloride w/o blistering, deterioration delamination or re-emulsification

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Fertilizer Resistance	ASTM D896	Passed 30/10/10 Fertilizer w/o blistering, deterioration, delamination or re-emulsification
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Rev. June 22, 2015

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