

ers • Deck Coatings • Waterproofing Systems • Hot Applied Membranes • Liquid Membranes • S  
ied Membranes • Sheet Membranes • Butyl Membranes • Drainage Systems • Roofing Underlayme  
or & Air Barriers • Deck Coatings • Waterproofing Systems • Hot Applied Membranes • Liquid Membranes • S  
ray Applied Membranes • Sheet Membranes • Butyl Membranes • Drainage Systems • Ro  
erlayment • Vapor & Air Barriers • Deck Coatings • Waterproofing Systems • Hot Applied Membranes • Liquid Membranes • S  
id Membranes • Spray Applied Membranes • Sheet Membranes • Butyl Membranes • Drainage Systems

# CCW-500R

## Reinforced Hot-Applied Liquid Waterproofing Membrane

C A R L I S L E   C O A T I N G S   &   W A T E R P R O O F I N G



800.527.7092 | [www.carlisle-ccw.com](http://www.carlisle-ccw.com)

**CARLISLE**  
Coatings & Waterproofing



# CCW-500R Reinforced Hot-Liquid Applied Waterproofing Membrane

Carlisle Coatings & Waterproofing, Inc. (CCW) provides a broad range of solutions to meet specific waterproofing needs. CCW offers technical services, research & development and manufacturing capabilities from its headquarters in Wylie, Texas and three additional manufacturing facilities in Terrell, TX, Elberton, GA, and Carlisle, PA. The CCW network is further supported by over 50 manufacturer's sales representatives directed by regional sales offices throughout the country. CCW offers a complete line of waterproofing and moisture protection products for the architectural, general

construction, industrial and maintenance industries. Carlisle Coatings & Waterproofing, Inc., is part of the SynTec Division of Carlisle Companies, Inc., which is a publicly traded company on the NYSE.

## PRODUCT DESCRIPTION

CCW-500 is a single component, hot-applied, rubberized asphalt compound that cures to form a strong, flexible, fully adhered, monolithic waterproofing and roofing membrane. The double-layer, reinforced CCW-500R system adheres tenaciously to virtually any structural surface, vertical or horizontal, to assure that water will not migrate beneath the membrane in the event of physical damage. CCW-500R allows for applications on a wide variety of substrate conditions and enhances crack bridging capability.

## APPLICATIONS

**CCW-500** is the perfect waterproofing membrane for all of the following applications:

- Roof Decks in an Inverted Roof Assembly
- Split Slab Construction for Plaza Decks
- Roof Terraces and Planters
- Parking Garages and Foundation Walls
- Walkway Links
- Highway Bridge Decking and Tunnels
- Green-Roof/Roof-Top Planting Systems

## INSTALLATION GUIDELINES

- Remove any foreign matter from the concrete that may be detrimental to the adhesion of the membrane.
- Prime the surface with CCW-550 Primer.
- Pretreat all construction joints, cracks, drains, penetrations and wall junctions with CCW-500 and fabric reinforcement.
- Install CCW-711-90 on all exposed flashing areas.
- For a reinforced system, apply first coat of CCW-500 90 mils thick, then apply the fabric reinforcing sheet, firmly pressing into the hot layer of CCW-500. Apply second coat of CCW-500 at 125 mils thick.
- Cover the CCW-500 membrane with CCW

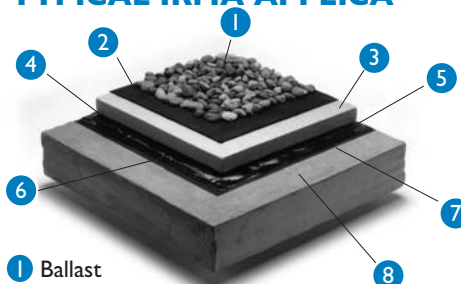
Protection Course or CCW Elephant Skin.

- Water test the system for 24 hours with 2" minimum water coverage.
- Install CCW MiraDRAIN, insulation, and finished surfacing.

## STANDARD, TESTS, CERTIFICATES

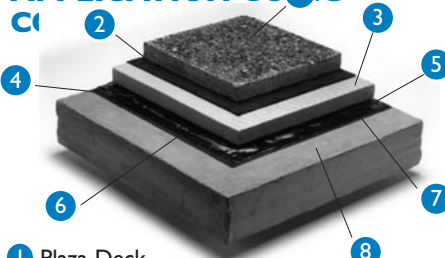
- US Patent # 5,979,133
- Membrane for Roofing Systems
- Classified by Underwriters Laboratories Inc.® As to External Fire Exposure Only 5M85

## TYPICAL IRMA APPLICA-



- 1 Ballast
- 2 Sure-Seal HP Protection Mat
- 3 Insulation
- 4 CCW Elephant Skin
- 5 CCW MiraDRAIN or protection board
- 6 CCW-500
- 7 CCW-550 Primer
- 8 Roof Deck

## TYPICAL PLAZA DECK APPLICATION USING



- 1 Plaza Deck
- 2 Sure-Seal HP Protection Mat
- 3 Insulation
- 4 8-mil CCW Elephant Skin
- 5 CCW MiraDRAIN or protection board
- 6 CCW-500
- 7 CCW-550 Primer
- 8 Roof Deck



## FEATURES AND BENEFITS

- CCW-500R is a hot-applied rubberized asphalt waterproofing system which provides a monolithic system, free of seams, which fully adheres to the substrate.
- CCW-500R forms a watertight seal eliminating water migration and buildup of moisture on the surface of the substrate.
- CCW-500R can be applied in low ambient temperatures. Its immediate curing time allows the project to progress in a timely fashion.
- CCW-500R will conform to surface irregularities and fill minor deck flaws—ideal for rough uneven surfaces on rehab applications. The self-healing characteristics of CCW-500R allow for a watertight membrane, even after minor construction punctures.
- CCW-500R, when used in an inverted roofing membrane application (IRMA), has a longer performance life than conventional roofing applications because it is protected from thermocycling and mechanical damage.
- CCW-500R has a single-component application, which does not require additional preparation and curing steps, typical of cold fluid applied membranes.



CCW-500 application to a roof deck.

### TECHNICAL DATA

| Property   | Test Method                        | Typical Value  |
|--|------------------------------------|--|
| Solids content                                       | ASTM D-1353                        | 100%   |
| Flow   | ASTM D-5329                        | @ 140°F, 0 mm  |
| Penetration<br>( <sup>1</sup> / <sub>10</sub> th mm) | ASTM D-5329                        | @ 77°F = 43<br>@ 122°F = 159   |
| Flash Point  | ASTM D-92                          | 579°F  |
| Water Vapor Permeance                                | ASTM E-96 (E)                      | 0.02 perms   |
| Toughness  | CGSB-37.50-M89                     | 37.6 J   |
| Ratio of Toughness to Peak Load                      | CGSB-37.50-M89                     | 0.117  |
| Adhesion   | CGSN-37.50-M89                     | Pass   |
| Viscosity  | CGSB-3750-M89                      | 8 seconds  |
| Water Absorption                                     | (CGSB-37.50-M89max. 0.35 g [gain]) | 96 hrs. = 0.16 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                                       | CGSB-37.50-M89                     | No Change in Viscosity, Penetration,<br>Flow or Low Temp Flexibility after Aging |
| Resiliency   | ASTM D-3407                        | 52%  |
| Resistance to Mild Acids                             | —                                  | No Effect  |
| Minimum Ambient Temperature for Application          | —                                  | 0°F  |

## COMPLETE WATERPROOFING ONE COMPANY

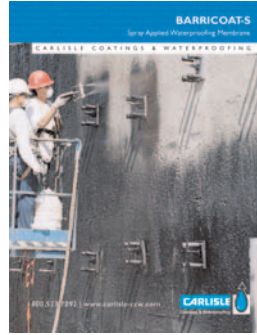
CCW provides a complete line of waterproofing solutions and the expertise to help you select the one that is best for your project.



CCW Deck Coatings



ECO-FAST Deck Coating System



Barricoat-S



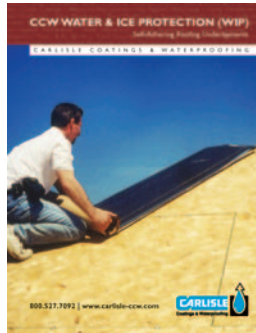
CCW MiraDRI 860/861



CCW MiraCLAY



CCW MiraDRAIN



CCW WIP



Air & Vapor Barrier Systems

CCW 525

## CCW WEB

Visit Our Web Site at

[www.carlisle-cw.com](http://www.carlisle-cw.com)

- Updates
- Data Sheets
- Contacts
- Guide Specifications
- Architectural Details
- Technical Bulletins

## 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.

**Carlisle Coatings & Waterproofing, Incorporated**  
900 Hensley Lane, Wylie TX 75098  
800.527.7092 • [www.carlisle-cw.com](http://www.carlisle-cw.com)

