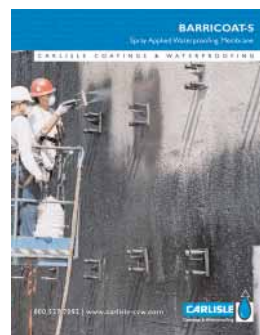


**COMPLETE WATERPROOFING ONE COMPANY**

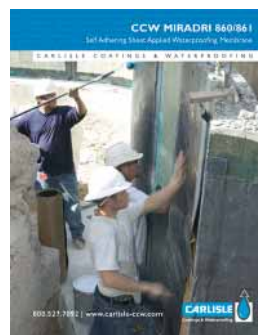
CCW provides a complete line of waterproofing solutions and the expertise to help you select the one that is best for your project.



CCW Deck Coatings



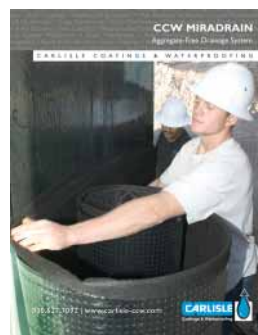
Barricoat™-S



CCW MiraDRi® 860/861



CCW MiraCLAY®



CCW MiraDRAIN®



Air & Vapor Barrier Systems



CCW-525

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- Data Sheets
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- 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 affect 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.



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**MiraPLY™**

Self-Adhering, Blindside Waterproofing System

CARLISLE COATINGS & WATERPROOFING INCORPORATED



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



# MiraPLY Self-Adhering, Blindsight Waterproofing System

Carlisle Coatings & Waterproofing Incorporated (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 is part of the Carlisle Construction Materials Incorporated division of Carlisle Companies, Inc., publicly traded company on the NYSE (CSL).

MiraPLY is a self-adhering, blindsight waterproofing system comprised of a tough, durable and flexible TPO backing with a butyl alloy adhesive. MiraPLY is designed for waterproofing zero property line applications against soil retention systems. The MiraPLY system is also very effective in rehab waterproofing and ideal for critical positive side waterproofing applications.

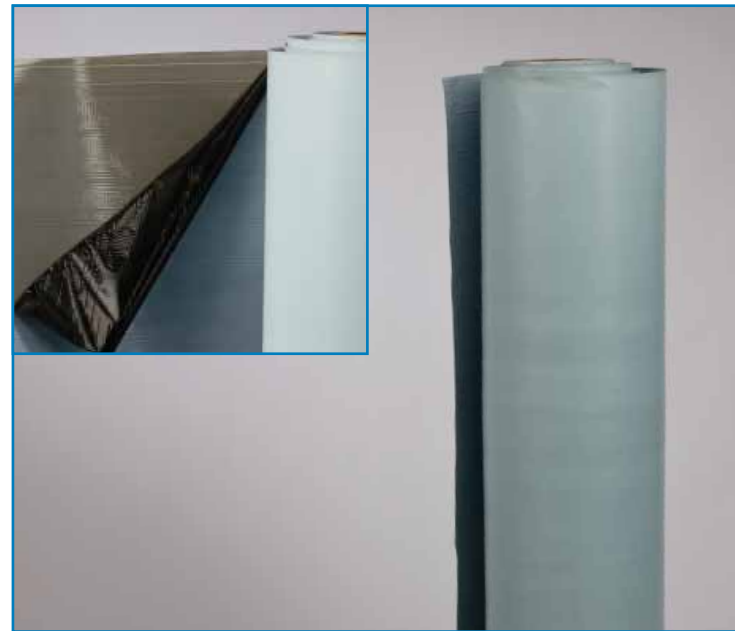
## CREATING THE RIGHT TECHNOLOGY: A HISTORY

As part of Carlisle Construction Materials, the combined experience and expertise of two Carlisle Construction Materials Divisions, Carlisle SynTec and Carlisle Coatings & Waterproofing, has allowed us to design and develop the revolutionary product known as MiraPLY.

After five years of product research and development, we have created a product that will dramatically improve blindsight waterproofing in new commercial construction, both from an installation and functionality standpoint, for years to come. What is unique about CCW's MiraPLY product is that it draws upon two proven technologies that have been employed throughout the world to stop water infiltration: TPO (thermoplastic polyolefin) and Butyl.

Carlisle SynTec is the recognized leader in single-ply roofing membranes; including EPDM, TPO and PVC technologies. Since 1998 Carlisle SynTec has produced over 2.5 billion square feet of TPO roofing membranes. Carlisle Coatings & Waterproofing is the leading provider of waterproofing membranes in the U.S. In addition to the tens of millions of square feet of drainage and asphaltic-based membranes we have produced, CCW has also manufactured over 10 million square feet of butyl sealants since 1987.

By combining our expertise in TPO and Butyl Sealants, CCW has created a product that truly will stand the test of time as we have been successfully utilizing both technologies, individually, for a combined 33 years. MiraPLY, while innovative, simply represents the synthesis of these two proven technologies to provide the best of both worlds: a top-of-the-line roofing membrane that typically goes through the added rigors of being exposed to the elements and UV, AND a waterproofing technology that is recognized as simply the best in the industry.



MiraPLY-V with inset release liner detail.

## LONG-TERM WATERPROOFING SOLUTION

With MiraPLY providing a strong, TPO membrane with a butyl alloy adhesive/sealant manufactured in tandem, a durable, lasting waterproofing system is achieved. All this installed without the need for primers, which may contain volatile substances, or expensive spray equipment. MiraPLY is designed for blindsight waterproofing situations with unstable soil conditions, when lack of consistent compression is a concern or when water-table contamination will not permit traditional bentonite membranes. The butyl alloy serves as a "Compression-Seal-Gasket" ensuring a dedicated, long-term bond between the waterproofing system and the concrete.

Where shifting soils are a concern, MiraPLY provides a dedicated bond to concrete to combat situations where shifting occurs and the soil separates from the foundation wall. MiraPLY also allows easier detailing during installation, which greatly reduces the chance of water passage through these critical areas. MiraPLY works by bonding to poured, structural concrete thereby providing a permanent, water-impermeable membrane with the butyl alloy. It resists puncture from jobsite elements such as wearing slabs, soils and construction traffic with the durable characteristics of the TPO membrane. Both the TPO and butyl alloy possess extreme long-term exposure and service time periods, measured in decades used as part of CCW's Integrated Weather Barrier™ System.

Included as part of the installed advantages of the MiraPLY system, dedicated edge-seaming sealant is standard with every roll, whether factory-applied as with the "H" grade or through the use of the perforated release liner as with the "V" grade.

## THE ASTM D412 PROPERTY

ASTM D412 is designed for testing values associated with vulcanized rubber. What is this significance? Rubber disperses the energy over the entire length of the area being stretched and will elongate uniformly.

## MATERIAL ATTRIBUTES

Store in the original packaging until use. Protect membrane from UV exposure, temperatures below 40°F or above 100°F and from torch-welding or cutting slag. Do not use in conjunction with spiked rebar chairs or leave exposed for more than 60 days (30 days with release liner and an additional 30 days without liner.) Installation in temperatures below 25°F require special tools and techniques. Consult Technical Services for details.

## PACKAGING

MiraPLY-V is packaged in 4' x 50' (1.22 m x 15.24 m) rolls, weight is 65 lbs (29.5 kg). MiraPLY-H is packaged in 4' x 50' (1.22 m x 15.24 m) rolls, weight is 85 lbs (38.6 kg).

## WARRANTIES

Warranties available in 5, 10 and 15 years.



MiraPLY-H with inset detail illustrating Factory-Applied Tape and membrane release liners.

## ACCESSORY MATERIALS

Accessories include CCW Tie-Back Cover, CCW-1602 Butyl Detailing Tape, CCW-3300 Double-Sided Butyl Tape and various other products designed to support any project.

## STANDARDS, TESTS, CERTIFICATES

- ASTM D412
- Effective Radon Barrier

## PROJECT DRAINAGE AND MEMBRANE PROTECTION

CCW MiraDRAIN Drainage Composites, CCW Protection Boards or CCW Protection Fabric should be applied at the end of each day's work to avoid damage caused by other trades, construction materials or backfill. For more information on installation guidelines, refer to the Manufacturer's Guide Specification or contact your local CCW representative.



## Advantages of the MiraPLY System

- Fully Adhered Membrane
- Factory-controlled Thickness
- Seals Around Mechanical Fasteners
- Tremendous impermeability and Excellent resistance to chemicals (i.e., acids and bases)
- Seals Cracks in Concrete
- Tremendous Impermeability to Water
- No Need for Water Test
- Ability to Rebond to Concrete
- Zero Off-Gassing or Odor
- Does Not Swell Prematurely
- Strong Bond Between Membranes
- Provides Essential "Compression-Seal-Gasket" in One-Step
- The CCW Assurance: A Safe Waterproofing Choice from a Reliable Company Backed by a Combined CCW Systems Warranty