



# AIR & VAPOR BARRIER

## Barriseal™

### Description

Barriseal is a water-borne asphalt emulsion modified with a blend of synthetic polymers and special additives. Barriseal is used as an air barrier, vapor barrier and water resistive barrier in above-grade wall assemblies. The product is applied through co-spray, 1-part spray or roller application to achieve a nominal 0.040-inch (40 mils) dry film thickness membrane. Barriseal can be applied over masonry, concrete, exterior gypsum sheathing, plywood, OSB and many other common building materials. The product is fully adhered to the substrate, flexible and rubber-like.

### Features and Benefits

- Co-spray applied product has instant resistance to rain wash-off and can be applied in cool & damp conditions: Reliable all-season installation
- High water resistance of cured membrane: Permits use in high moisture exposure areas
- Non-flammable and fume-free composition: Contributes to safety during installation, legal in all 50 states
- Monolithic coverage and self-sealing properties around fasteners: Highly air- and water-tight installation
- Co-spray application covers large areas quickly, in a single coat: Reduces time and cost.
- Same product can be applied by co-spray, 1-part spray or roller: Versatile application, simplified inventory
- Barriseal is a warranted air/vapor barrier system from Carlisle Coatings & Waterproofing

### Installation

Before application, obtain full, safe access to the area and mask adjacent surfaces to protect from overspray or drips. Verify that the product is within shelf life, as indicated on the product label. Inspect the freeze indicator on the pallet to verify if it has been broken from exposure to freezing temperatures. Contact CCW Technical Service for information on product inspection if the freeze indicator has been broken.

The following conditions shall be detailed in accordance with CCW Barriseal standard details:

- Sheathing joints: cover with 2" width tooled ribbon of Barribond or 4" width DCH Reinforcing Fabric embedded in Barriseal.

- Rough openings, pipe/duct penetrations, sheathing inside/outside corners: CCW-705/705 XLT strip over surface prepared with CCW contact adhesive or LiquiFiber™ embedded in Barriseal or DCH Reinforcing Fabric embedded in Barriseal
- Expansion joints, control joints, termination at head/foot of wall, transitions of dissimilar materials: CCW-705/705 XLT strip over surface prepared with CCW contact adhesive.

Corner treatments shall cover the transition and extend at least 3 inches on each side. Rough opening treatment shall extend 3 inches minimum onto the wall and shall return into the rough opening deep enough to provide continuous seal of the fenestration to the air barrier. Consult Barriseal details for more information. All terminating edges of CCW-705/705 XLT shall be covered with a 1" width tooled ribbon of Barribond or LM 800 XL.

Co-Spray Application: Load Barriseal and Barricure into the spray system and start it up according to the instructions given in the CCW Spray Equipment Brochure. Spray product onto wall surfaces, holding the gun approximately 20" to 24" from the surface. Keep the gun pointed square to the surface while spraying surfaces from the bottom, upward. Minimum wet mil thickness by spray shall be 65 mils, measured with a comb type wet mil gauge immediately after spray and before the emulsion breaks. Apply a maximum of 80 mils wet thickness per coat

Co-Spray at Ambient Temperature below 40°F: Store Barriseal and the spray equipment in an area maintained at or above 50°F. Employ measures, such as a heated trailer drum heaters and a heat exchanger to keep the product in drums and lines warm (ideally above 70°F) during spray. Keep the hose and gun reeled in except during spray. Maintain Barricure dilution at 4:1 ratio (Water: Barricure). Warmer product sprays, builds and cures more consistently than cold product. Do not heat product higher than 120°F.

1-Part Spray Application: Load Barriseal into the spray system and start it up according to the instructions given in the CCW Spray Equipment Brochure. Spray product onto wall surfaces, holding the gun square to the surface. Use a cross-hatch pattern to lay an even coat. Build 65 mils total wet thickness in multiple coats. Apply a maximum of 40 mils wet thickness per coat. Allow first coat to dry firm before covering with the next.

Recommended Tip Sizes for Co-Spray and 1-Part Spray Application:  
 High Coverage: GHD 635  
 Detail Coat: GHD 429

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Roller Application: Apply Barriseal to surface with a medium nap paint roller at a maximum wet mil thickness of 35 mils per coat. Build 65 mils total wet thickness in multiple coats. Allow first coat to dry firm before covering with the next.

Provide proper coverage over opaque surfaces and details as shown in Barriseal standard drawings. Provide complete coverage over surfaces, so that there are no voids, pinholes or similar passages through membrane. Allow the membrane to dry completely before subjecting it to inspection for air/water leakage and adhesion testing. Drying time varies with substrate, ambient temperature and humidity. Membrane is dry when it appears black and rubber-like, and feels dry when pressed.

Procedure for Repairing Damage to Installed Membrane: Remove damaged and loosely-adhered material. Clean weathered or dirty surfaces with a towel wet with xylene. Re-apply Barriseal over area using co-spray, 1-part spray or roller application technique.

### Limitations

- Do not allow product in packaging or in spray equipment to freeze.
- Maximum permitted exposure time of Barriseal on a vertical wall is 30 days.
- Do not apply product during rain or snow.
- Do not use in areas where temperatures exceeding 150°F are anticipated.
- Do not perform 1-part spray or roller installation if rain is expected during the drying time of the product.
- Product is designed to be used as a positive side water barrier and will not function as negative side water barrier.
- Not intended for traffic resistance or as a wearing surface.
- Do not install on roofs.
- Do not install over PVC membrane, silicone, uncured sealants or other incompatible materials.
- Keep edge of membrane ½" minimum back from finished exterior. Do not allow the membrane to come into contact with any visible sealants.

### Delivery, Storage & Handling

Store Barriseal and accessory products in a location protected from temperature extremes, precipitation and direct sunlight. Protect Barriseal pails and drums from freezing. Shelf life of Barriseal in original, unopened

packaging, stored under these conditions, is twelve (12) months from the date of manufacture.

### Packaging

Product	Description	Size
<b>Main Product</b>		
Barriseal	Asphalt emulsion air/vapor barrier. Co-spray, 1-part spray or roller application	50-gallon drum 5-gallon pail
Barricure	Chloride-free curing agent for co-spray application of Barriseal. Dilute at 4:1 ratio tap water: Barricure. 1 pail treats about 3 drums.	5-gallon pail
<b>Self-Adhered Flashing and Contact Adhesives</b>		
CCW-705/ 705 XLT	40-mil self-adhering sheet flashing/membrane, 36 mils of rubberized asphalt + 4 mils cross-laminated HDPE facer. CCW-705 for installation at 40°F and above. CCW-705 XLT for installation at 15°F to 60°F.	36" x 75' roll 100' rolls of 24", 18", 12", 9", 6" and 4" width
CAV-GRIP	Aerosol spray contact adhesive packaged in pressurized cylinders. Reusable spray gun and 6', 12' or 18' hoses are sold separately and are attached to cylinder for dispense.	40# cylinder with 30-lb. fill weight of adhesive
CCW-702	Standard solvent-based contact adhesive	5-gal pail
CCW-702 LV	OTC-compliant, solvent-based contact adhesive	5-gal pail
CCW-702 WB	Water-based contact adhesive	5-gal pail
<b>Imbedded Reinforcements</b>		
LiquiFiber	Glass matt consisting of randomly oriented strands in soluble binder. Ideal for window rough openings.	300' rolls of 6" and 12" width
DCH Reinforcing Fabric	Woven polyester fabric. Ideal for corners and board joints.	324' rolls of 4", 6" and 12" width
<b>Sealants</b>		
Barribond	High-solids, low VOC STPE-based liquid flashing and detail sealant.	20 fl-oz sausages, 16 per case
LM-800XL	Trowel-grade synthetic rubber termination mastic.	29 fl-oz cartridges, 12 per case 5-gallon pails