



AIR & VAPOR BARRIER

CCW-705

Description

CCW-705 Air & Vapor Barrier is a 40-mil-thick (0.040" inch) composite membrane consisting of a rubberized-asphalt adhesive laminated to a tough, dimensionally stable, smooth-surfaced poly film. CCW-705 is provided in rolls of various widths lined with disposable silicone-coated plastic release film. The release film is removed to expose the adhesive as the membrane is pressed in place. CCW-705 provides a complete barrier to moisture and air when adhered to an above-grade substrate. Cut sizes are also useful for other above-grade wall flashing applications. CCW-705 is cold applied and will adhere firmly when pressed against the substrate.



Typical Use

CCW-705 is designed for use in above-grade wall assemblies to function as an air, vapor and water barrier. CCW-705 can be applied over many common building materials including gypsum sheathing, concrete masonry unit (CMU), concrete, wood, structural steel, metal flashings, aluminum extrusions and rigid PVC (i.e. pipe/conduit, window frames). All substrates shall be prepared with a CCW contact adhesive to provide consistent adhesion of CCW-705 in jobsite conditions.

Features/Benefits

- Printed facer provides easy product identification
- Factory-controlled composition provides uniform coverage and instant rain resistance after installation
- Self-adhering membrane provides easy, reliable installation; spray equipment or mil-thickness measurements required
- Membrane seals around fasteners and bridges cracks, providing an air- and water-tight assembly
- CCW-705 is a warranted air & vapor barrier system from Carlisle Coatings & Waterproofing

Project Conditions

Building codes and project specifications require continuity of the air barrier installation. It is the installer's responsibility to understand the extent and sequencing of air barrier installation on the project. Do not proceed with installation until substrate and project conditions conform to requirements specified in this document. All surfaces accepting CCW-705 shall be clean, dry, frost free and of sound condition. Verify that wall assemblies are dried in so that water intrusion will not occur from above, behind or around the membrane installation. Gaps and cracks exceeding 1/4" across shall be filled with materials and technique approved by CCW. As CCW-705 cannot span any gap in excess of 1/4", electrical/mechanical penetrations, structural steel penetrations, columns/beams, expansion/seismic joints, shelf angles, tie-ins to fenestration and transitions to other building assemblies, these may require extra work and materials to provide suitable surfaces for continuous installation of CCW-705. Please consult the CCW-705 details for guidance.

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Substrate Inspection

Concrete

Concrete shall be cured in place 7 days minimum. It shall be smooth, with sharp protrusions such as cold joints ground flush. Honeycomb and holes/cracks exceeding ¼" across shall be filled with grout or mortar.

Concrete Masonry Unit (CMU)

Mortar joints shall be struck flush and shall be free of voids exceeding ¼ inch across. Mortar droppings shall be removed from brick ties and all other surfaces accepting CCW-705 and CCW accessories. Allow mortar joints to dry a minimum of 3 days prior to installation of CCW-705 and CCW accessories.

Gypsum Sheathing

Sheathing boards shall be flush at joints, with gap between boards according to building code and sheathing manufacturer's requirements. Sheathing boards shall also be securely fastened to the structure with proper fastener type, technique and spacing according to building code and sheathing manufacturer's requirements. Sheathing boards shall be repaired or replaced if inspection reveals moisture damage, mechanical damage or if sheathing boards have exceeded the exposure duration or exposure conditions as required by the sheathing manufacturer.

When installing CCW sheet membranes and sheet flashings over gypsum sheathing with glass-mat facers, coverage rates for contact adhesives and primers will depend on the porosity and texture of the sheathing and will vary substantially by gypsum-sheathing brand and manufacturer. To achieve consistent contact adhesive and/or primer coverage with adequate tack, it may be necessary to decrease the coverage rate (i.e. Increase the amount applied) of the contact adhesive and/or primer and/or the application of multiple coats. CCW Contact adhesives and primers shall be allowed to dry completely (lower temperatures will extend drying time) before additional coats are applied or membranes installed. Caution should be taken as contact adhesives and/or primers applied to gypsum sheathings with glass-mat facers will take longer to dry than other substrates. Multiple adhesion tests should be performed randomly to verify proper application of primer and ensure a successful application.

OSB, Plywood, Lumber & Pressure-Treated Wood

Wood sheathing inspection carries the same protocol given for gypsum sheathing. Also, moisture content, measured with a wood moisture meter in the core of the substrate, shall be below 20%. Do not cover any wooden materials with CCW-705 or CCW accessories if moisture content is 20% or above. Do not encapsulate wood (such as nailers) with membrane, as this will cause premature rot. In most cases fire- and pressure-treated wood must be kiln dried to accommodate the less than 20% moisture content requirement.

Surface Preparation

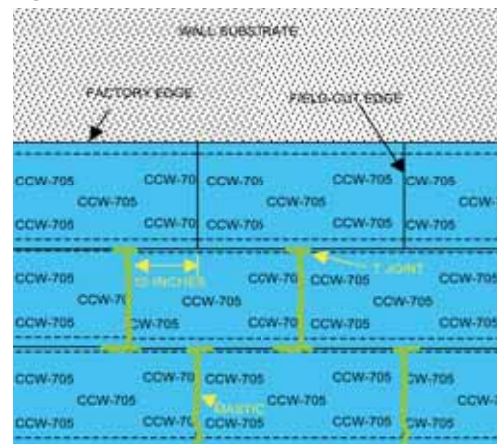
Apply CCW contact adhesive to ALL surfaces accepting CCW-705. CCW-702, CCW-702 LV, CCW-702 WB, CCW-715, CAV-GRIP™ and TRAVEL-TACK™ are all acceptable for this application. Follow the application instructions on the respective contact adhesive technical data sheet.

Installation

Standard installation of the product can be performed when ambient and substrate temperatures are 40°F and above. Installation below 40°F, as low as 25°F, can be performed if the product is stored in a heated area until use and the laps are treated with CCW contact adhesive. Installations below 40°F are best addressed with CCW-705 XLT - low temperature adhesive formula. Consult the CCW-705 XLT product data sheet for further instruction.

Install CCW-705 in horizontal rows or in vertical runs. Wipe dust or debris from film side of product with a clean, dry rag to assist in forming tight laps. Avoid forming wrinkles and air pockets. Press membrane firmly to substrate with a hand roller, especially at laps, corners and terminations. Overlap adjoining pieces of CCW-705 a minimum of 2 inches. Use narrower cut sizes for detailing. Sequence the installation to provide shingled laps. Membrane shall bear minimum 3 inches onto each side of transitions such

Figure 1: Installation in Horizontal Rows



- Start at bottom, work up
- Cut sheets to manageable size
- Offset vertical seams 12 inches minimum
- Lap neighboring pieces at least 2 inches
- Install Barribond or LM 800 XL over CCW-705
- Do not install CCW-705 over Barribond or LM 800 XL Mastic unless mastic has been allowed to cure 1 hour minimum