



AIR & VAPOR BARRIER

CCW-705 HT

Description

The CCW-705 HT Air & Vapor Barrier is a 40-mil-thick composite membrane consisting of a rubberized asphalt adhesive laminated to a tough cross-laminated HDPE film. A siliconized release liner prevents the material from sticking together in the roll and is easily removed for installation. CCW-705 HT is available in 36" x 75' rolls. Factory-controlled quality ensures uniform thickness on the job, providing an excellent air, vapor and water barrier.

CCW-705 HT is made with a high-temperature-resistant modified asphalt adhesive. It is suitable for use directly behind metal cladding. CCW-705 HT provides a complete barrier to moisture and air when adhered to an above-grade substrate. It is also useful for other above-grade wall flashing applications. CCW-705 HT Air & Vapor Barrier is cold-applied and, when pressed against the substrate, will adhere firmly.

Features and Benefits

- Resists temperatures up to 240°F without degradation or flow of adhesive
- Factory-controlled composition provides uniform coverage and instant resistance after installation
- Self-adhering membrane provides easy, reliable installation, no spray equipment or mil-thickness measurement required
- Resists mechanical damage
- Provides a seal around fasteners and other penetrations to prevent wall assembly leaks
- Membrane seals around fasteners, bridges and cracks providing an air-tight assembly
- Part of a complete Air & Vapor Barrier system
- Easy to install, inspect and repair

Installation

Surface Preparation: Concrete shall be in place for 7 days minimum. Substrate must be completely dry. Fill cracks and gaps $> \frac{1}{4}$ " across with approved sealant or fill material. Surface shall have a smooth finish free of voids, sharp protrusions, laitance and form release agents. Block or brick walls shall have mortar joints struck flush.

Adhesion Promotion: Surfaces to receive CCW-705 HT Air & Vapor Barrier must be clean and dry. Prepare all surfaces with CCW-702, CCW-702 LV, CCW-702 WB or CAV-GRIP™ contact adhesive. Apply CCW Contact Adhesive in a thin, even coat. Allow to dry until adhesive will not transfer when touched. Adhesive on surface should still feel tacky at the time of membrane application. Reapply adhesive to surfaces that lose tack or become dusty. Do not treat more surface area than can be covered with membrane the same day.

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.

Application: Apply CCW-705 HT Air & Vapor Barrier in manageable lengths. Overlap adjoining pieces of membrane a minimum of 2". Begin installation at base of wall and work upwards, so that laps shed water. CCW-705 HT can be applied vertically in long runs or in staggered, horizontal rows. Use a suitable roller to press membrane firmly against the wall.

Seal T-joints, cut edges of membrane and all non-shingled laps with a continuous bead of LM-800XL Mastic. Seal the vertical termination of the membrane at the end of the working day with a continuous bead of LM-800XL Mastic.

Limitations

If NFPA 285 is required, consult CCW's NFPA 285 extension report. CCW-705 HT passes NFPA 285 in some wall assemblies.

Not intended for prolonged exposure to sunlight and weather. Cover within 60 days of installation.

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Concrete, masonry and some exterior gypsum substrates require prep with CCW contact adhesive for consistent adhesion of CCW-705 HT.

Membrane must be installed at ambient temperature of 40°F or higher.

Do not apply CCW Contact Adhesive or CCW-705 HT to damp, frost or contaminated surfaces.

Do not use over sealants containing coal tar or polysulfides. If these materials are present, they must be removed and the surfaces thoroughly cleaned.

Warnings and Hazards

CCW-702, CCW-702 LV, CAV-GRIP and LM-800XL contain flammable and combustible solvents. Avoid exposure to open flame. Avoid breathing vapors. Use only in areas with adequate ventilation. Refer to MSDS for important warnings and product information.

Storage

CCW-705 HT rolls should be stored on end, under cover and in areas where the temperature is between 40°F and 100°F (4.4°C and 38°C). Do not double-stack pallets.

Packaging

| Product | Size / Weight |
|--|---|
| CCW-705 HT | 36" x 75' roll: (225 ft ² /roll) 1 roll per box, 35 boxes per pallet Weight = 60 lb/box (approx); 2200 lb/pallet |
| CCW-702 Solvent-Based Contact Adhesive | 5-gallon pails (45 pails per pallet) |
| CCW-702 LV VOC-Compliant, Solvent-Based Contact Adhesive | 5-gallon pails (45 pails per pallet) |
| CCW-702 WB Water-Based Contact Adhesive | 5-gallon containers (60 containers per pallet) |
| CAV-GRIP Aerosol Spray Contact Adhesive | 40-lb Cylinders |
| CAV-GRIP Accessories | Re-usable hose of 6', 12' or 18' and spray gun |
| LM-800XL | 29-oz QT Cartridge (12 ctg per case), 5-gallon pails (45 pails per pallet) |

Typical Properties

| Property | Method | Results |
|-----------------------------|---------------|----------------------------------|
| Thickness | — | 40 mils |
| Tensile Strength | ASTM D412 (C) | 500 psi |
| Elongation* | ASTM D412 (C) | 300% |
| Permeance | ASTM E96 (B) | .05 perms |
| Pliability | ASTM D1970 | Passes @ -25°F |
| Peel Strength | ASTM D903 | 7.5 lb/in width |
| Puncture Resistance | ASTM E154 | 50 lbs (min) |
| Lap Adhesion | D1876 Mod. | 7.0 lb/in width |
| H ₂ O Absorption | ASTM D570 | 0.12% by wt |
| Air Infiltration | ASTM E283 | Pass |
| Water Penetration | ASTM E331 | Pass |
| Wind Loading | ASTM E330 | Pass |
| Air Permeance | ASTM E2178 | 0.000 L/s*m ² @ 75 Pa |

*% of elongation to ultimate failure of rubberized asphalt membrane

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.