



CCW WIP 403HR

HEAT RESISTANT ROOFING UNDERLAYMENT

DESCRIPTION

CCW WIP 403HR (Heat Resistant) Roofing Underlayment is a 40 mil self-adhering sheet membrane used to protect roof substrates against water penetration caused by wind driven rain and water back-up caused by ice dams. This membrane is designed for use in hot climate areas beneath metal roofing, slate, tile and asphalt shingles. The high performance adhesive resists softening and flow at the high in-service temperatures found in these areas.

CCW WIP 403HR is comprised of a strong, skid resistant polyethylene film laminated to a thick layer of butyl-modified adhesive. A siliconized release sheet is used to prevent the material from sticking in the roll, and is easily stripped away for installation. The membrane adheres to the deck, permanently bonds to itself at the laps and provides a seal around nails or other fasteners that penetrate the deck during installation of the primary roofing material.

APPLICABLE STANDARDS

CCW WIP 403HR Roofing Underlayment meets or exceeds the requirements of:

- ICBO Report #4941
- UL-790 Class A and C
- UL Classified Sheathing Material for Fire Rated Assemblies Design Numbers: P224, P225, P227, P230, P237, P259, P508, P510, P512, P514, P711, P717, P722, P734, P736, P803, P814, P818, P823, P824.
- ASTM D-1970

LIMITATIONS

- Roof deck surface must be clean, dry and free of debris.
- Surface must be free of sharp protrusions which could cut through the membrane.
- CCW WIP 403HR Roofing Underlayment must be covered with finished roofing material within 30 days. This membrane is not intended for permanent exposure. Consult manufacturer if exposure will exceed 30 days.
- Consult Carlisle Representative for extreme high or low temperature applications. Applications below 40°F may require priming and nailing of the membrane.

INSTALLATION

Install CCW WIP 403HR Roofing Underlayment in the following critical locations on a typical sloped roof:

- Centered over ridges and valleys
- Around dormers, skylights or other penetrations
- Eave edges and low slope areas
- Roof to wall intersections
- Full coverage under metal, tile, slate, or shingles

SUBSTRATE PREPARATION

CCW WIP 403HR is applied directly to the plywood substrate. Remove debris, dust, nails, felts and shingles from the surface to receive underlayment. Priming is not required on clean, dry wood or metal surfaces but concrete, masonry and exterior gypsum board should be primed using the appropriate CCW Primer.

MEMBRANE INSTALLATION

Cut membrane into manageable lengths for placement on roof substrate. Expose a portion of adhesive membrane and carefully position at the roof perimeter. Remove the remaining silicone release sheet and adhere underlayment to the substrate. Brooming the membrane in place will maximize adhesion. Center the membrane over valleys and ridges starting at the low point and working upward. End laps are overlapped 6 inches and side laps 3 1/2 inches.

Priming will increase the initial adhesion of the membrane, especially below 40°F. In cold weather, membrane may be secured by nailing in the corners of the sheet. Adhesion will develop with time and exposure to temperatures above 40°F.

Apply CCW-702 Primer by brush or with a long nap roller at 300 to 350 sq. ft. per gallon. At 75°F allow primer to dry 1 hour minimum. Primer has a satisfactory cure when it will not transfer when touched. Prime only areas to be waterproofed the same day. Reprime if area becomes dirty.

If using CCW-714 water-based primer, apply sparingly with a brush or low pressure spray at 400-600 sq. ft. per gallon and allow to dry 2 to 4 hours minimum at 75°F. If necessary, protect primed area from dust and debris; reprime if area becomes dirty.

TECHNICAL DATA

PROPERTY	ASTM	RESULTS
Operating Range	—	-25 to 240° F
Thickness	—	40 mils
Tensile	D-412	500 psi
Elongation	D-412	300%
Pliability	D-1970	Pass @ -25°F
Water Absorption	D-570	0.12% by wt.
Adhesion to plywood	D-1970	4 lb/in.
Lap Adhesion	D-1970	10 lb/in.

PACKAGING

CCW WIP 403HR = 36" wide X 75' roll (225 sq. ft.)

CCW-702 Solvent Base Primer - 5 gallon pails

CCW-704 Mastic - 30 oz. Quart cartridge, 5 gallon pails

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.