



# CCW WIP 400

## SELF-ADHERING

### ROOFING UNDERLAYMENT

## DESCRIPTION

CCW WIP 400 Roofing Underlayment (formerly Dri-Start A) is a 40 mil self-adhering sheet membrane. CCW WIP 400 is comprised of a strong, skid resistant polyethylene film laminated to a thick layer of highly adhesive rubberized asphalt. A siliconized release sheet is used to prevent the material from sticking in the roll, and is easily stripped away for installation.

## FEATURES & BENEFITS

- **Moisture and Air Barrier:** CCW WIP 400 protects the roof structure from water seepage caused by ice dams and wind driven rains.
- **Self Sealing:** CCW WIP 400 membranes seal around roofing nails, staples and screws
- **Used to ensure the watertightness of the primary roofing system in critical areas.**
- **Self Adhering:** CCW WIP 400 membranes bond directly to the roof substrate for fast and easy installation without the need for additional adhesives.
- **Permanent Protection and Low Life-Cycle Cost:** CCW WIP 400 will not crack, dry out or rot resulting in long term waterproofing performance.
- **Aesthetically Pleasing:** CCW WIP 400 is a concealed waterproofing system that will not detract from the architectural aesthetics of the primary roofing system.

## APPLICABLE STANDARDS

CCW WIP 400 Roofing Underlayment meets or exceeds the requirements of:

- ICBO Report #ER-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.
- UL Classified
- ASTM D-1970

## INSTALLATION

### General Information

Carlisle Coatings & Waterproofing offers six roofing underlayment products. The installation instructions are generic to all CCW WIP membranes unless otherwise stated.

### Weather Conditions

CCW WIP roofing underlayments are applied when the roof deck is dry and the substrate temperature is 40°F. (4.4°C.) or higher. At temperatures below 40°F, nailing or priming may be used to temporarily hold the membrane in place while adhesion develops. This product is designed to be covered with the primary roofing system and should not be exposed to sunlight for an extended period.

### Substrate Preparation

*New Construction:* Prepare the roof deck by removing all loose objects, dirt, dust or debris.

*Re-roofing:* Remove all old materials from the roof deck in the area to be covered with CCW WIP roofing underlayment. Replace water-damaged sheathing and sweep roof deck thoroughly.

*Priming:* Not required for attachment to wood surfaces. All concrete surfaces should be primed.

### VALLEYS, HIPS & RIDGES

Cut CCW WIP roofing underlayment into manageable lengths. Align over the center of the valley, hip, or ridge. Remove release film. Press the middle of the membrane first before working towards the edges. For open valleys, cover CCW WIP roofing underlayment with metal valley liners.

### EAVES & RAKES

Cut CCW WIP roofing underlayment into 10 - 15 ft. pieces. Remove 2 - 3 ft. of release film and align the edge of the membrane, sticky side down, so it overhangs the drip edge by 3/8" (10mm). Continue to remove release film and press as you move across the roof. Use a hand roller and/or hand pressure to press into place. Overlap end laps a minimum of 6". CCW WIP roofing underlayment should reach a point 2' inside the interior wall line. If additional courses are required, the top lap must be at least 3.5".

## TECHNICAL DATA

PROPERTY	ASTM	RESULTS
Thickness	D-1970	40 mils
Tensile	D-412	500 psi.
Elongation	D-412	300 %
Pliability	D-1970	Pass @ -25°F
Permeance	E-96	0.05 perms max.
Water Absorption	D-1970	0.12 % by wt.
Peel Adhesion	D-1970	4 lb/in.
Lap Adhesion	D-1970	10 lb/in.

**Drip Edges:** At the rake edge, apply CCW WIP roofing underlayment first and place drip edge on top. At the eave, apply drip edge first and place CCW WIP roofing underlayment on top of the drip edge so that it overhangs drip edge 3/8" (10mm).

For standard installation details, follow the CCW WIP detail drawings. For non-standard installation instructions contact your local Carlisle Coatings & Waterproofing representative.

## LIMITATIONS

- CCW WIP 400 should be installed when air, roof deck and membrane temperatures are at or above 40°F (4.5°C).
- CCW WIP 400 should not be left exposed to sunlight for more than 30 days.
- CCW WIP 400 membrane should not be folded over the roof edge unless protected by a gutter or other flashing materials.
- The primary roof system must be ventilated to prevent excessive moisture build-up in the interior structure.
- Use caution during the installation of the membrane as it may become slippery when wet or covered with frost.
- CCW WIP 400 should not be used under metal roofs.
- Do not apply when ambient temperature is below 40°F. Consult Carlisle Representative for extreme high or low temperature applications. Applications below 40°F may require nailing of the membrane or use of CCW WIP 401LT Roofing Underlayment.

## PACKAGING

3' x 75' (0.91m x 22.86 m)

**Storage:** CCW WIP 400 roofing underlayment rolls should be stored on end, under cover, and in areas where the temperature is between 40° and 100°F (4.4° and 38°C). Do not double stack pallets.

## 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.