

HydraFlash-TWF Modified Asphalt Flashing

Description

HydraFlash-TWF is made of a strong woven 12 mil high density polyethylene film coated with a low density polyethylene. This weaving process produces a highly tear resistant film. The white low density polyethylene coating increases UV resistance and reduces heat build up. Laminated to the film is a 28 mil flexible rubberized asphalt adhesive backing. Strong bonding to a variety of substrates is achieved by using a primer adhesive. HydraFlash-TWF provides a water and vapor-proof barrier over a variety of substrates. Penetrations by fasteners into the substrate are sealed against leakage.

Typical Use

HydraFlash-TWF is used as a thru-wall flashing material on masonry surfaces, concrete surfaces, head and sill flashing, around windows, doors, penetrations and construction gaps. HydraFlash-TWF is also used in conjunction with AirGuard 0727 and HydraFlash to form an air barrier assembly in exterior wall assemblies.

Advantages

- Heavy-duty film reduces construction tears
- Superior adhesion to substrate
- Reduces building energy cost
- Combination air, vapor and water barrier
- Bonds to CMU, plywood, OSB, concrete, insulation board and most other construction materials
- Seals around fasteners
- Fully bonds to self for continuous protection
- Tough laminated protection film minimizes construction damage
- Provides a rubber like membrane
- Long service life

Limitations

- Do not leave exposed to UV light
- Apply only to dry and clean surfaces

Installation

Surface Preparation

Allow concrete to cure for seven days prior to application. Substrate must be clean, dry and free of dust, debris, frost, and release agents. Surface shall be smooth and free of sharp protrusions.

Priming

All porous surfaces such as concrete wood, masonry and sheathing must be prepped with Applied Technologies VOC Primer before applying HydraFlash-TWF. Primer is ready to adhere the HydraFlash-TWF when it is tacky but will not transfer when touched. Drying times vary with temperature, humidity, porosity and wind.

Application

Precut HydraFlash-TWF to fit each location. Use a utility knife to perform cutting. Make all cuts clean and straight to help ensure a good overlap joint. Remove the release paper and position HydraFlash-TWF over the bed of primer. Press HydraFlash-TWF into primer starting at one end, being sure to keep straight. Overlap adjoining pieces 2" minimum. Press into primer bed with steel roller.

Seal overlaps and end seams with Membrane Mastic. Do not put mastic in between layers of HydraFlash-TWF. Cut and fold HydraFlash-TWF to form end dams at window sills and heads and to detail inside and outside corners. Seal seams with Membrane Mastic. Seal vertical terminations with Membrane Mastic.

Shingle over HydraFlash-TWF with water resistive barrier as soon as scheduling allows. In applications without water resistive barrier,

vertical termination must be tucked into mortar joint at 2" minimum or mechanically attached to wall. Mechanical attachment by either; 1) Cut ½" reglet into wall and insert HydraFlash-TWF, sealing with Membrane Mastic or 2) Fasten termination bar and seal with Membrane Mastic. Cut 2" from finished edge only if using a drip edge. See architectural detail drawings for clarification.

Physical Properties

Property	Description
Color	Black asphalt, white film
Thickness	40 mils (0.040") total
Minimum Application Temp.	25°F

Technical Data

Property	Test Method	Results
Elongation	ASTM D-412	40%
Tensile Strength	ASTM D-412	900 psi min.
Puncture Resistance	ASTM E-154	85 lbs min.
Peel Strength	ASTM D-903	7.9 lb/in width
Lap Adhesion	ASTM D-1876	7.5 lbs/in width
Water Absorption	ASTM D-570	0.12% by weight
Air Leakage	ASTM 283	<0.004 CFM/ft² @ 0.3" water
Water Leakage	ASTM E-331	Pass
Wind Loading	ASTM E-330	Pass
Water Vapor Permeance	ASTM E-96	not more than 0.02 perm
Air Permeance	ASTM E-2178	<0.009 L/s*m² @ 75 Pa

Packaging

12" x 75' rolls, 2 rolls/box-30 boxes/pallet
 18" x 75' rolls, 2 rolls/box-30 boxes/pallet
 A-Tech VOC Primer: 5 gallon pails
 Membrane Mastic: 2 gallon pails

Warranty

Applied Technologies warrants that the product is free of manufacturing defects and conforms to published specifications in force on the date of acceptance by "the company" of the order. Applied Technologies shall only be held liable under this warranty if the material has been stored, used and applied in accordance with Applied's instructions in the products technical data sheet.

If Applied Technologies, in its sole discretion determines that the product breached the above warranty it will in its sole discretion replace the non-conforming product, refund the purchase price or issue a credit to the buyer of the product. The dollar value of Applied's liability and the buyer's remedy under this limited warranty shall not exceed the purchase price of the material in question. This is the only warranty extended by Applied. There are no other warranties including implied warranties of merchantability and fitness for a particular use and purpose. Applied 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.

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