Advanced Composite Technology

AC HomeSeal®

Self Adhesive Door and Window Flashing

KEY PROPERTIES

- **Super Tough Cross Laminated Polyethylene Film**
- **Low Temperature Adhesion**
- **Custom Slit (4”, 6” or 9” x 75’)**
- **High Temperature Stability**

DESCRIPTION

AC HomeSeal™ is a proprietary, self adhesive composite membrane, uniquely combining high strength, low temperature adhesion and high temperature stability into a superior barrier to limit air and moisture transmission. A tough 4 mil (0.1mm) cross-laminated polyethylene film forms a resilient barrier to physical damage. The 21 mils (0.9mm) of proprietary, modified asphalt offers the waterproofing effectiveness of traditional modified bitumen products while introducing a novel combination of low temperature adhesion and high temperature stability.

AC HomeSeal composite is 25 mils (1.0mm) thick and is supplied in rolls 75’ long, custom slit to 4",6" or 9” widths. AC HomeSeal is self adhesive and cold applied. No special adhesives, heat or equipment are necessary to install AC HomeSeal.

USES

AC HomeSeal is used to prevent vapor and air transmission through masonry curtain walls, construction joints and fittings around doors and windows. Acceptable surfaces include precast concrete, plywood, metal, concrete block foam block foundations, or approved insulations.

APPLICATION

Substrate Preparation

- All surfaces must be clean, dry and smooth. Structural concrete should be cured a minimum of 7 days. Wood composition panels, particularly Oriented Strand Board (OSB) may require priming. AC HomeSeal can be mechanically fastened using nails, screws, or staples when surface cannot be made smooth, clean and dry.

Primer

- Prime dusty, dirty or weathered surfaces with a water, polymer, or solvent based primer to obtain a smooth, clean and dry surface. **Use only water based primer on foam surfaces**. Allow primer to dry completely before installing AC HomeSeal membrane.

Application

- Cut AC HomeSeal into manageable lengths. Remove the release sheet. Apply membrane from the lowest point upward, overlapping horizontal edges in shingle fashion. Roll membrane firmly to insure uniform contact with substrate. Overlaps should be sufficient to ensure consistent adhesion to the substrate. Reinforcing strips on all inside and outside corners as well as mechanical fastening to door and window frames is strongly recommended. Seal all terminations, detailing and protrusions with a modified bitumen adhesive.

TECHNICAL DATA AC HOMESEAL		
PROPERTY	**TEST METHOD**	**MINIMUM VALUE**
Tensile Strength, film	ASTM D 412	6.0 lbs
Elongation to Break (rubberized asphalt)	ASTM D 412	320%
Pliability, 180°, 1" mandrel -25°F (-4°C)	ASTM D 146	Pass
Peel Adhesion, Dry (concrete)	ASTM D 903	5 lb/in
Puncture Resistance	ASTM E 154	50 lbs
Permeance	ASTM E 96B	0.01 perms (max)
Water Absorption	ASTM D 570	0.1% by weight (max)

- AC HomeSeal is formulated to be installed in ambient temperatures of 40°F and above. When applying AC HomeSeal in ambient temperatures below 40°F, store AC HomeSeal at room temperature until use and prime the substrate with a water, polymer or solvent based primer to insure good initial adhesion.

SAFETY, STORAGE AND HANDLING

Pallets of membrane shall not be double stacked on the job site. Provide cover on top and all sides, allowing for adequate ventilation. Avoid prolonged and repeated contact with the skin. Consult the Material Safety Data Sheet for the best available information on the safe handling, storage, personal protection, health and environmental considerations.

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