



Advanced Composite Technology



AC MetalSeal

ROOFING

Self Adhesive Underlayment for Metal Roofing

KEY PROPERTIES

- Superior Slip Resistant Surface
- Cooler Working Surface
- Thermally stable up to 260°
- 120 Day Exposure Time
- Self Adhesive & Cold Applied
- Rugged Barrier Against Foot Traffic

DESCRIPTION

AC MetalSeal is a durable, self adhesive composite underlayment, specifically designed to withstand the rigors of a commercial construction site. The strong, slip resistant, polyester surface provides a rugged barrier to physical damage, UV radiation, weather and moisture. The unique, modified asphalt adhesive layer offers the application benefits of cold temperature adhesion and exceptional thermal stability under high heat. The self adhesive layer is covered with a high temperature release sheet which is removed during installation.

AC MetalSeal composite is 40 mil (1 mm) thick and is supplied in 195 sq. ft. (3' x 65') (.9 m x 20.3 m) rolls. AC MetalSeal is self adhesive and cold-applied. No special adhesives, heat or equipment are necessary to install AC MetalSeal.

USES

AC MetalSeal is an excellent underlayment for metal roofs. AC MetalSeal prevents moisture entry into structures by sealing uniformly to the deck and around nail penetrations. AC MetalSeal can serve as a temporary roof to protect the structure until the primary roofing system is installed. AC MetalSeal may be exposed for a maximum of 120 days.

APPLICATION

- AC MetalSeal should be installed when ambient and substrate temperatures are 40°F (4.4°C) or higher. Remove all dirt, dust, loose nails and debris.
- AC MetalSeal can be installed directly to the structural deck. Cut the membrane into manageable lengths, typically 10' - 12'. Align the membrane parallel to the roof edge. Fold the membrane away from the edge onto itself. Remove the release sheet. Place the membrane with the exposed rubberized asphalt onto the deck, pressing firmly into place. Repeat process as needed. Overlap successive courses 3". End laps should overlap 6". Nail 9" on center, 1" in from the edge on all side laps. On all roof applications, it will be necessary to nail all overlaps of the membrane 12" on center.

Details

- At vertical surfaces, AC MetalSeal shall turn up a minimum of 8".
- At valleys, a continuous sheet shall be centered in the valley and overlapped by each course a minimum of 6".
- All roof penetrations shall be sealed with a modified bitumen adhesive.
- When AC MetalSeal is to be adhered to any metal surface, priming with asphalt primer is required.

TECHNICAL DATA		
AC METALSEAL		
PROPERTY	TEST METHOD	MINIMUM VALUE
Tensile Strength	ASTM D 412	30 lbs/in (psi)
Elongation (Rubberized Asphalt)	ASTM D 412	250%
Low Temperature Flexibility -25°F (-32°C)	ASTM D 1970	Unaffected
Adhesion to Plywood	ASTM D 903	9 lb/in (528 N/M)
Permeance	ASTM E 96	0.01 perms (max)

Details (Continued)

- For added protection and to enhance end lap integrity, a modified bitumen adhesive should be used under all overlaps.

STANDARDS AND CODE APPROVALS

- ASTM D 1970 Standard Ice Dam Underlayment

SAFETY, STORAGE AND HANDLING

Pallets of AC MetalSeal shall not be double stacked on the job site. Provide cover on top and sides, allowing for adequate ventilation.

Consult the Material Safety Data Sheet for best available information on the safe handling, storage, personal protection, health and environmental considerations.



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