

**SANDELL'S ICE & WATER BLOCK**

**DESCRIPTION:**

Sandell's Ice & Water Block is a self-adhesive, flexible composite roofing underlayment. The unique, slip-resistant surface on the tough high density, cross laminated polyethylene film provides a rugged barrier to physical damage and moisture. The patented modified asphalt adhesive layer combines low temperature adhesion advantages with exceptional thermal stability. The self adhesive layer is covered with plastic release sheet which is removed during installation.

**CHARACTERISTICS:**

Produces a strong bond between Nuflex and other surfaces. It is also excellent for bonding other materials such as Tedlar, neoprene, asbestos and foamed polystyrene. Unlike asphalt mastics that cause plasticizer migration when used with PVC, Sandell Special Nuflex Mastic is compatible with all PVC and polyethylene materials and also asphaltic materials.

**SPECIFICATIONS:**

The membrane is 58 mils (1.4 mm) thick and is supplied in rolls of 108 sq. Ft. (3' x 36") (0.9m x 11m) and 225 sq. Ft. (3'x75" (0.9m x 23m). Sandell's Ice & Water Block is self adhesive and cold-applied. No special adhesives, heat or equipment is required to install.

**USES:**

Sandell's Ice & Water Block is an excellent underlayment for shingle, slate, metal or tile roofs. Sandell's Ice & Water Block underlayment prevents moisture entry into structures by sealing uniformly to the deck and around nail penetrations. The flexibility of Sandell's Ice & Water Block membrane makes it an ideal flashing for skylights, dormers, vent pipes, and chimneys as well as eaves, ridges and rakes. Sandell's Ice & Water Block underlayment protects residential and commercial buildings from damage due to ice dams or wind driven rain.

**APPLICATION:**

1. Sandell's Ice & Water Block must be installed directly to the structural deck. Remove all dirt, dust, loose nails and debris. Place metal drip edge or shingle starter strip over Ice & Water Block.

2. Cut the Ice & Water Block to manageable length. Typically 10'-12'. Align the membrane parallel to the roof edge, extending over by ¼". On steep slope applications it may be necessary to spot nail the top edge of the membrane temporarily during the installation process. Fold the membrane away from the edge into itself. Remove the lower half of the release sheet, starting at the middle of the membrane to the edge. Replace the membrane with the exposed rubberized asphalt into the deck, pressing firmly into place. Remove nails along the top edge. Fold the top half of the membrane toward the roof edge over itself. Remove the release sheet and reposition the membrane pressing firmly into place. Repeat process as needed. A metal drip edge should be installed over the underlayment.
3. Smooth shank galvanized nails are recommended for fastening shingles. Do not overdrive nails.
4. Apply in ambient and substrate temperatures of 40 degrees (40°F) or higher. Do not leave membrane exposed for more than 30 days.

PROPERTY	TEST METHOD	MINIMUM VALUE
Tensile Strength	ASTM D 2523	(25 lb/in)
Tensile Strength FACER	ASTM D 412	5000 PSI
Tensile Strength MEMBRANE	ASTM 412	625 PSI
Adhesion to Plywood	ASTM D 903	6 lb/in (348 N/M)
Permeance	ASTM E 96	0.05 perms (max)
Thermal Stability Sag 200°F (93°C)	ASTM D 1970	Pass
Elongation (Rubberized Asphalt)	ASTM 412	250%
Low Temperature Flexibility -25°F (-32°C)	ASTM 1970	Unaffected

**TECHNICAL ASSISTANCE:**

Call Sandell directly for technical assistance or product questions:

- New York: 800.283.3888
- Alabama: 877.726-3355
- Wisconsin: 800.323-3565

 [www.sandellmfg.com](http://www.sandellmfg.com)

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Amendments / Notes:

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Sandell Employee: \_\_\_\_\_

Date: \_\_\_\_\_

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