



Advanced Composite Technology

Northern G Ice and StormSeal

Granular Surfaced Self Adhesive Underlayment

KEY PROPERTIES

- UV Protected Surface
- Seals Around Nails
- High Temperature Stability
- Reinforced with Fiberglass Mat
- Aggressive Bond at Low Temperatures
- Repositionable

DESCRIPTION

NORTHERN G Ice and StormSeal is a self adhesive composite underlayment. The adhesive layer is composed of a proprietary modified asphalt, reinforced with an extra heavy fiberglass mat. The surfacing of opaque granules provides excellent traction and protection from UV radiation and weathering. The self adhesive layer is covered with a release sheet which is removed during installation.

NORTHERN G Ice and StormSeal composite is 55 mils (1.4mm) thick and is supplied in rolls of one square (3' x 33.3') (0.9m x 10m). NORTHERN G Ice and StormSeal is self adhesive and cold-applied. No special adhesives, heat or equipment are necessary to install NORTHERN G Ice and StormSeal.

USES

NORTHERN G Ice and StormSeal is an excellent underlayment for shingle, slate, concrete or tile roofs.

NORTHERN G Ice and StormSeal prevents moisture entry into structures by sealing uniformly to the deck and around nail penetrations. NORTHERN G Ice and StormSeal protects residential and commercial buildings from damage due to ice dams or wind driven rain.

APPLICATION

- NORTHERN G must be applied when ambient and substrate temperatures are 40°F (4°C) or higher. NORTHERN G Ice and StormSeal must be installed directly to the structural deck. Remove all dirt, dust, loose nails and debris. Place metal drip edge or wood starter shingles over NORTHERN G Ice and StormSeal.
- Cut NORTHERN G Ice and StormSeal to manageable lengths, typically 10'-12'. Align the membrane parallel to the roof edge, extending over by 1/4". 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 onto 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 onto 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. Overlap additional courses at least 3" (75mm) and end laps at least 6" (150mm).
- Smooth shank galvanized nails are recommended for fastening shingles. Do not overdrive nails.

**TECHNICAL DATA
NORTHERN G**

PROPERTY	TEST METHOD	RESULT
Thickness, mm	D 5147	1.3
Maximum load @ 23°C, MD kN/m Longitudinal Transverse	D 2523	14.4 7.2
Elongation at break @ 23°C, % Longitudinal Transverse	D 2523	15.7 15.8
Adhesion to Plywood @ 23°C, N/m	D 903 / D 1970	349
Adhesion to Plywood @ 5°C, N/m	D 903 / D 1970	175
Water absorption, %	D 1970	0.1
Thermal Stability, mm	D 1204 / D 1970	0
Flexibility Temperature, °C	D 1970	Pass -29
Waterproof integrity after low temp flex	D 1970	Pass
Tear Resistance, MD N Longitudinal Transverse	D 4073 / D 1970	394 256
Moisture Vapor Permeance, ng/Pa•s•m ²	E 96	<1.7
Sealability around nail	D 1970	Pass
Waterproof integrity of lap seam	D 1970	Pass
Slip Resistance	D 1970	Pass
Unrolling @ 5°C and 60°C	D 1970	Pass
Visible Defects	D 1970	Pass
Slip Resistance (Horizontal Method), N	D 4521	Pass
Water Resistance	37-GP-56M	0.1
Dimensional change, % Longitudinal Transverse	37-GP-56M	0.25 0.31

**SAFETY, STORAGE
AND HANDLING**

Pallets of AC Granular Ice and StormSeal 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.

**STANDARDS AND
CODE LISTINGS**

- ASTM D 1970 Standard Ice Dam Underlayment
- ICBO Report No. 4991



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