

TYPICAL APPLICATION



Breasmart 050 TECHNICAL DATA

Breasmart 050 Specifications

Width per roll:	48" / 1.22m	59" / 1.5m
Length per roll:	250' / 76.2m	328' / 100m
Weight per roll:	27lbs / 12.2kg	41lbs / 18.5kg
Roll size:	1000ft ² / 93m ²	1615ft ² / 150m ²

Breasmart 050 Technical Data

Nominal Thickness	25mils
Water Vapour Transmission (g/m ² , 24h, ≥)	600
Water Tightness (2000mm, 2h)	Pass
Maximum Tensile Force (MD) (N/50mm, ≥)	212
Maximum Tensile Force (XD) (N/50mm, ≥)	144
Resistance to Tearing MD (Nail Shank)	115
Resistance to Tearing XD (Nail Shank)	110
Tensile Strength after Ageing (MD) (% ≥)	80
Tensile Strength after Ageing (XD) (% ≥)	80
Resistance to Water Penetration after Ageing (% ≥)	80
UV Resistance (Days)	180
Temperature Range	-40°F to 240°F

* The Data shown above is based on the test averages and independent test reports. There can be a +/-10% variation in the individual test results. This report should not be considered as a warranty for the manufacturer. The manufacturer is not responsible for the misrepresentation or misinterpretation of the data by the reader.

Breasmart 050 Meets or exceeds the following code standards:
ASTM D226 Types I & II and D4869 Types I & II, ASTM D8257, Class A Fire -ASTM E108/UL790

Install right from the start with
Arkint® Breasmart 050
SYNTHETIC UNDERLAYMENT
LOGO PRINTING AVAILABLE



Installation Instructions:

Storage: Rolls of Arkint® Breasmart 050 should be stored palletised or on their sides on a smooth clean surface, under cover and protected from direct sunlight

General: Care should be taken when handling the membrane in order to prevent tears and punctures occurring. Any that do occur should be repaired with Acrylic Tape.

Application: Unroll Arkint® Breasmart 050 horizontally over the face of the construction. Ensure maximum coverage of membrane by extending 100mm min below the lowest structural timber/steel member.

Initial fixing: Double sided (acrylic) Tape (50mm) may be used to provide an initial fix for Arkint® Breasmart 050, but mechanical fixings (see below) must be made almost immediately after. Permanent security of the membrane may also be made with external insulation, battens or cladding brackets. Extra care should be taken where the membrane is exposed to high wind conditions.

Fixing - to timber studs/sheathing: Fix Arkint® Breasmart 050 with stainless steel staples or corrosion resistant nails. Fix membrane at 600mm centres horizontally, 300mm centres vertically and at 150mm centres at joints and openings.

Fixing - to masonry: Arkint® Breasmart 050 may be fixed to masonry with a suitable anchor fixing system or a masonry nail/screw and EPDM rubber washer. Fixings should be at maximum 500mm centres. Butyl Tape (double sided) may be used to fix the membrane in addition to the mechanical methods suggested above. A Primer can be applied to chalky or porous masonry to seal the surface and improve adhesion before applying adhesive tape.

Fixing - to steelwork (SFS): Initial (temporary) fixing of Arkint® Breasmart 050 may be made with continuous strips of Double Sided (acrylic) Tape. These should be supplemented with mechanical fixings through to the steel structure, where suitable drill-tip or self tapping screws may be used. The screws must sit flush (not countersunk) and a rubber or EPDM washer should sit between the screw heads and the membrane to avoid water ingress. Screw fixings should be spaced vertically at 500mm centres on every stud (typically spaced at 600mm horizontal centres).

Fixing - Rainscreen Cladding Applications: Arkint® Breasmart 050 may be fixed to the external face of a cement bonded particle board, OSB or ply sheathing, using a combination of Double sided (acrylic) Tape and stainless-steel staples. Arkint® Breasmart 050 may also be secured by fixing through the sheathing to the underlying structure using suitable drill-tip or self-tapping screws. See Fixing - to steelwork (SFS) above. In many cases, the retrospective fixing of timber battens or metal brackets (& insulation) will provide the principle security for the membrane. Care should be taken to ensure these components are fixed tightly over the membrane to avoid water ingress. If in doubt Butyl Tape may be used between the component and the membrane.

Fixing to insulation: Fix Arkint® Breasmart 050 to rigid/semi-rigid insulation with a proprietary expanding insulation fixing anchor at maximum 500mm centres. Penetrations made by wall ties or cladding brackets must be made good with either Acrylic Tape.

Laps: All horizontal laps should be 100mm min. Vertical laps should be 150mm min.

External corners Dress: Arkint® Breasmart 050 around external corners ensuring a return of 300mm min.

Window openings: Wrap Arkint® Breasmart 050 into window/door openings and seal to frame with Acrylic Tape or Plastering Tape if render is later to be applied. Make good to corners using Tape. Cavity barriers/trays/flashings Dress Arkint® Breasmart 050 over cavity barrier/tray/flashings ensuring a minimum lap of 100mm.

Floor junctions: Dress Arkint® Breasmart 050 over intermediate floor zone ensuring a minimum lap of 100mm between sheets. Airtightness - sealing (optional). With all laps and penetrations sealed, Arkint® Breasmart 050 will contribute to the overall airtightness of the building. Seal the laps in Arkint® Breasmart 050 with Double Sided (acrylic) Tape. Fixing penetrations can be sealed by applying Butyl Tape to the substrate before the membrane is installed. Complicated penetrations may be sealed using Tape.

Compatibility: Where timber treatments are used care should be taken to ensure they are touch-dry before the installation of the Arkint® Breasmart 050 membrane. Retrospective spray applied micro emulsions can also pose significant risk to polymer-based materials such as Arkint® 050. Masking the membrane against preservative treatments should be considered.

Temporary exposure period: Arkint® Breasmart 050 may be left exposed for a period not exceeding 6 months, provided that the membrane is adequately secured in accordance with our recommendations. Site conditions and exposure to wind should be assessed to determine whether extra security measures for the membrane are required.

Technical Support: Please email to: info@arksynthetics.com