



# *FlexShield 3050*

## Self Adhered-Fire Rated Modified Bitumen Membrane

### Product Information and Technical Data

#### Product Description:

FlexShield 3050 membranes are premium elastomeric roofing products, manufactured via patent-pending dual compound technology, whereby the membrane consists of a “true” SBS compound on the top layer and an aggressive self-adhesive compound on the bottom layer. FlexShield 3050 membranes are built with a high performance reinforced polyester mat to guarantee an excellent dimensional stability. FlexShield 3050 membrane is finished with granules on the top surface, except at side laps which have a feature that enhances bonding at laps, and provided with a patented, granule-free roll end, with a split release film on the bottom surface.

#### Recommended Application:

FlexShield 3050 membrane is specially designed for applications where use of an adhesive or propane torch is undesirable or prohibited. Applications include new roofing, re-roofing, re-cover and BUR repair installation. FlexShield 3050 membranes are also used as flashing membranes in all applicable specifications, installed in accordance with recommended roofing practices.

#### Application Methods & Recommendations:

- FlexShield 3050 membrane is intended to be used as the primary weathering surface in new or re-roofing applications. FlexShield 3050 (Self-Adhesive) membrane can be applied directly to a roof deck in a non living space situation, i.e. carports, sheds, shade canopies etc. or as the cap in complete self adhered roofing assembly.
- Apply only when the weather is dry and all material interface temperatures (air, roof deck, membrane) are 40<sup>0</sup>F (5<sup>0</sup>C) and rising.
- All application areas shall provide continuous support.
- Apply only over clean, dry, and dust free surfaces. Prime concrete, masonry, metal or metallic surfaces prior to application.
- Masonry or concrete supported by steel frame or other steel structure shall be provided with sui-table expansion provisions and detailed for movement.
- Ensure installation of FlexShield 3050 does not prevent ventilation of existing construction.
- Remove any loose matter, dust, etc. When re-roofing: Remove existing materials down to satisfactory deck and discard obsolete protrusions (and repair any voids).
- Cut the FlexShield 3050 roll to a suitable length (typically between 9 and 15ft.) depending upon conditions and applications, etc.
- Re-roll the cut section or lay the material flat in place (whichever is more effective), starting at the lowest point.
- Align the membrane at the lowest edge of the roof. Remove the first 18” – 24” pf the release film by peeling-off.
- Press the membrane into place with firm and even pressure. Roll edges firmly with a silicone rubber or other suitable roller to ensure complete adhesion.
- Gradually remove release film from the remaining membrane, pressing and rolling evenly, from the center to the outer edges, as you progress.
- Position the next sheet by overlapping seams and line up the overlap of the top sheet edge with the inside of the bottom sheet’s factory selvage edges. Overlap and cut end laps minimum 6”.
- At seam overlaps, remove protective tape and apply even pressure to seam area.
- After adhering rolls it is required that uniform pressure be applied to the entire roll area by using a 80 lb linoleum roller minimum, or similar weighted roller in a method suitable to the roof slope. Care must be taken to prevent injury when rolling membrane, especially in sloped surfaces.
- Details are carried out by the use of hot-air welding technique or with FLEXSHIELD Flashing Adhesive in combination with the FlexShield 3050 membranes.

TEST METHOD	TECHNICAL DESCRIPTION	VALUES
ASTM D5147	Thickness, nominal, mils (mm)	140(3.5)*
ASTM D228	Net mass/unit area, min, lbs/100 ft <sup>2</sup> (g/m)	75(3661)
ASTM D5147	Bottom coating thickness, min, mils (mm)	16(0.4)
ASTM D5147	Maximum load at 0 ±3.6 <sup>0</sup> F(-18 ± 2 <sup>0</sup> C), MD & XMD, min, before and after heat conditioning, lbf/in. (kN/m)	70 (12.3)
ASTM D5147	Elongation at 0 ±3.6 <sup>0</sup> F (-18 ±2 <sup>0</sup> C), MD & XMD, min, at maximum load, before and heat conditioning, %	20
ASTM D5147	Maximum load at 73.4 ±2 <sup>0</sup> C), MD &XMD, min, before and after heat conditioning, lbf/in. (kN/m)	50(8.8)
ASTM D5147	Elongation at 73.4 ± 3.6 <sup>0</sup> F (23 ±2 <sup>0</sup> C), MD & XMD, min, at maximum load, before and after heat conditioning, %	35
ASTM D5147	Elongation at 5% of maximum load 73.4 ±3.6 <sup>0</sup> F (23 ± 2 <sup>0</sup> C), MD & XMD, min, before and after heat conditioning, %	38
ASTM D5147	Tear strength at 73.4 ± 3.6 <sup>0</sup> F (23 ± 2 <sup>0</sup> C), min, lbf (N)	55 (246)
ASTM D5147	Low temperature flexibility, max, before and after heat conditioning. <sup>0</sup> F ©	0 (-18)
ASTM D5147	Dimensional stability, max, %	1.0
ASTM D5147	Compound stability at 215 <sup>0</sup> F	No failures
ASTM D5147	Granule embedment, max, g	2
ASTM D1970	Adhesion to plywood Min at 40 <sup>0</sup> F, lbf/ft width (kgf/30.4cm) Min at 75 <sup>0</sup> F, lbf/ft width (kgf/30.4 cm)	2.0 (0.92) 12.0 (5.44)
ASTM D1970	Thermal stability, max, in (mm)	0.1 (3.0)
ASTM D1970	Waterproof integrity of lap seam	Pass

The properties in this table are 'as manufactured' unless otherwise noted.

\*Meets minimum thickness requirements of applicable ASTM standard.

PRODUCT NAME	APPROX WEIGHT	ROLL SIZE	ROLLS/PALLET	COVERAGE
FlexShield 3050	95 lbs	32' 10x3/8" (10mx1m)	20	100ft <sup>2</sup>

- All materials should be stored in their original unopened packaging.
- Roll goods shall be stored on end on a clean flat surface.
- Store all roofing materials in a dry place, on raised platforms, out of direct exposure to the elements until time of application. This requirement applies equally to rooftop materials, temporarily on the roof before installation.
- Store membrane at roof temperature whenever possible, until immediately prior to installing the roll.
- Materials shall be stored in a tidy and safe way in order to avoid exceeding the allowable live load of the storage area.
- Do not double stack pallets of FlexShield membrane.

#### Color Preference

Top surface granule protection is available in a variety of colors such as:

Black Buff Chestnut Green Grey Slate Oak Weatherwood White Red Red Blend Pine Green



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