

Perma-Seal™ FG

Self-Adhered Roof Underlayment

Physical Properties

-Thickness (ASTM D3767)	1.45 mm (56 mils)	-Thermal Stability Flow @ 110°C	None
-Application Temperature	5°C and above	(ASTM D1970)	
-Service Temperature	-40°C to 70°C	-Peel adhesion to Plywood	322 N/m
-Elongation (ASTM D412)	MD ≥ 39%	(ASTM D903)	
-Low Temperature Flexibility (ASTM D1970)	XD ≥ 39%	-Water Vapour Permeance (ASTM E96)	2.8 ng/Pa.s.m ² (0.05 perms)
-Tensile Strength (ASTM D412) min.	Pass @ -30°C	-Air Permeance (ASTM E283)	Less than 0.01 l/m ² .s at 75 Pa. Pressure difference.
	421000 kg/m ² (600 psi)		

Packaging

-Thickness	1.45mm (56 mils)	-Gross Coverage	20.9 m ² (225 ft ²)
-Roll Length	22.86 m (75')	-Net Coverage	19.1 m ² (205ft ²)
-Roll Width	914 mm (36")		
-Top Surface	Sanded		
-Bottom Surface	Split Back Release Film	*Based on 65mm laps both side and end.	

Description

Perma-Seal™ FG is an SBS modified bitumen membrane reinforced with non-woven fibrous glass. The membrane is specifically designed to be self-adhered on sloped roof surfaces. Sand on the top surface provides a non-slip working substrate. The lower surface has a split back release film for ease of application.

Features

- High softening point SBS modified membrane; flexible at all temperatures
- Impermeable to air, moisture vapour and water
- No hot asphalt required
- Excellent anti-slip surface for workers safety
- Factory controlled, uniform thickness

Uses

Perma-Seal™ FG is designed for use on roofing applications under steel, slate or tile roofing to provide a waterproof air and vapour barrier. Also used on plywood, concrete or gypsum board substrates.

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Limitations

Perma-Seal™ FG should not be stored exposed to the weather. It should be covered or stored in original shipping package in the vertical position, and not subject to heat over 49°C (120°F).

Perma-Seal™ FG has a non-slip surface designed to retard slipping. There may be, however, jobsite conditions of excess water or thin films of ice that will affect the skid resistance of the product.

Perma-Seal™ FG is not designed for extended exposure to ultra violet. Maximum exposure is 2 weeks.

Perma-Seal™ FG should not be used in direct contact with flexible PVC/vinyl membranes or flexible PVC shingles.

Preparation

Acceptable substrates are precast concrete, cast-in-place concrete, gypsum board and plywood. All surfaces to receive **Perma-Seal™ FG** must be clean and free of oil or dust. Concrete surfaces must be smooth and without large voids, spalled areas or sharp protrusions. Concrete must be cured a minimum of 14 days and must be dry. Frozen concrete is not acceptable. Where curing compounds are used they must be clear resin based, without oil, wax or pigments.

Prime all concrete, gypsum board and plywood surfaces. Apply **Blueskin® Primer** by lambs wool roller, brush or spray equipment at the rate of 12 m²/l (500 ft²/gal.) depending on porosity and texture of surface. Allow primer to dry minutes. Ensure all primed surfaces receive **Perma-Seal™ FG** in the same working day, or re-priming is required.

Note: Where furring strips or Z bars are installed immediately after installation of membrane priming of substrate may be omitted.

Application

Perma-Seal™ FG must be lapped a minimum of 75mm (3") on both sides and end laps. All side laps have a 75mm (3") selvedge with release paper. Position membrane for alignment with release paper in place. It is preferable to apply the rolls parallel to the slope. Apply end laps in shingle fashion. Roll back, remove release film and press firmly in place. Where application is over steel deck, fasten a strip of metal over flutes to allow for treatment of end laps. Reverse a 225mm (9") strip of **Perma-Seal™ FG** (self-adhesive surfaces up) and mechanically fasten to metal. Overlap membrane 50mm (2") centered on strip. As an alternate to using reversed sheet, the laps can be heat sealed with a torch or sealed with **POLYBITUME® 570-05**. Roll all laps with steel or polyurethane roller. Seal end of membrane where it meets the substrate at the end of the working day. Use application of **POLYBITUME® 570-05**.

Protection of Membrane

Perma-Seal™ FG is not designed for permanent exposure. Steel or tile roofing and insulation must be placed over membrane as soon as possible. If final roof covering does not promptly follow membrane application, secure **Perma-Seal™ FG** in place with mechanical fasteners as a precaution against wind damage and uplift.< >