



IB SILICONE FG COATING is a high performance, moisture curing, 100% silicone, flashing grade mastic that is designed to seal all seams and fasteners on roofs in conjunction with IB Silicone systems.

PACKAGING

2 gallon Pail

FEATURES AND BENEFITS

- Plasticizer free
- 90% solids by volume
- Brush-able/trowel-able
- Excellent adhesion to a variety of substrates
- Unique formulation allows breathable film while providing a watertight membrane and permitting trapped moisture to escape
- In most cases, eliminates need for 3 course application of fabric reinforcement of seams and flashings.
- Low VOC compliant, less than 50 grams/liter
- Available in white or gray

PRODUCT USE

IB Silicone FG is used as a flashing material for most substrates and as a sealant on fasteners, seams, and penetrations on metal roofs in lieu of 3 course application and is compatible with IB Silicone coatings. Can be applied over most substrate types.

ORDERING INFORMATION

IB Silicone Coating

Item Code	Description	Size	Class
9-SCFGG	IB Silicone FG White	2-gal	55
9-SCFGW	IB Silicone FG Gray	2-gal	55

COVERAGE RATE (APPROXIMATE)

Approximate coverage rate is 3.0 gallons per 100 square feet (48 wet mils) per pass depending on substrate type and roughness.

Yield (1 gal/100 sq. ft.) = 16 wet mils/14 dry mils.

See recommendations for specific applications. Yields will vary depending upon system selected and the smoothness and absorbency of substrate.

Physical Properties

Property	Test Method	Typical Value
% Solids by Volume	D2697	90% ± 2%
% Solids by Weight	D1644	91% ± 2%
Elongation	D2370	468% (initial) 300% (aged)
Tensile Strength	D2370	205 psi (initial) 300 psi (aged)
Weathering/UV Resistance	D6694	Pass 5000 hours
Permeance	D1653	Perms 6.7
Weight per Gallon	-	11.1 lbs./gal
VOC Content	EPA M24	<50 g/L
Dry Time @ 75°F (25°C)	-	2-3 hours @ 50% humidity;
Recoat Window	-	> 4 hours to recoat
Cure Time		24 hours
Shelf Life: (unopened container stored at temperatures between 40°F and 90°F.		12 months from date of manufacture.

TEMPERATURE PRECAUTIONS

Temperatures affect viscosity, pumping and flow characteristics of the IB Silicone FG. Heat increases and cold decreases the flow-ability. For best results, apply when the temperatures are above 50°F (10°C). Do not apply this product below 32°F (0°C). May be applied to damp surfaces and is rain tolerant during cure. Upper temperature restriction (both air and substrate) for application of Silicone FG is 120°F (49°C). If the substrate temperature exceeds 120°F (49°C), IB Silicone FG should be applied during cooler periods of the day. No product should be applied unless surface temperature is above 32°F (0°C) minimum and 120°F (49°C) maximum.

STORAGE

Always store in cool and dry location. For best results, keep product stored above 50°F (10°C) or below 90°F (32°C). Do not store in direct sunlight or in temperatures. Keep from freezing. Allow material to set at room temperature for 24 hours prior to use.

APPLICATION GUIDELINES

Application Equipment

- **Brush:** No reduction necessary. Use synthetic filament brushes. Do not over-brush as material may start to pull.
- **Trowel:** No reduction necessary. Use straight edge or notched trowel. Do not over-trowel as material may start to pull.
- **Mixing:** No thinning or reduction is necessary.

Surface Preparation

The substrate must be free of areas of ponding water, ice, snow, rain or dew, dirt, dust, grease, oil, foreign contaminants or other debris that would inhibit adhesion of coating. If such conditions exist, the roof surfaces should be properly prepared and cleaned using the specified IB cleaning solution in order to receive the new coating system.

Mildew must be removed by power washing and scrubbing with a bleach solution of 1 part bleach and 2 parts water. Repeat if necessary. Rinse thoroughly and allow to dry.

Most substrates require a compatible primer to be applied prior to the application of the coating. Contact IBRS Technical Department at 800-426-1626 for recommendations regarding specific applications.

Verify that all drains, fasteners, flashings, penetrations, perimeter edges, seams, scuppers, and other areas of intended application are secure and watertight. Note: Any condition that is not secure or watertight will require a 3 course application of IB Silicone FG and IB Fabric.

Application

Fasteners: Tighten or replace all fasteners as necessary. In no case shall joints of seams be allowed to separate greater than 1/16 inch. Stitch screw any large gaps over overlaps that cause greater than 1/16 inch opening. Apply IB Silicone FG over the fastener to completely encapsulate the screw (approximately a 1-inch circle). Allow to dry for least 4 hours before proceeding with coating application.

Seams: Seal all field seams and flashings by applying IB Silicone FG at the rate of 3.0 gallons per 100 sq. ft. (48 wet mils) over the seam and feather in with a chip brush or trowel to an approximate width of 3-4" wide. Seal all penetrations etc. by applying IB Silicone FG in a 2" wide bead over the seam and feather in with a chip brush or trowel to an approximate width of 3-4" wide. Achieve a smooth 48 wet mil application over the treatment area. Allow to dry for least 4 hours before proceeding with coating application.

Drying: Allow to dry for least 4 hours before proceeding with coating application.

Adhesion Test: Adhesion of the IB Silicone FG should always be checked. Apply 6" - 12" x 1" strip of the sealant and embed a piece of IB Fabric into the coating, leaving a minimum 2" tail of the fabric exposed. Allow 2-3 days for the coating to cure and perform a 90° pull test of the fabric tail to test adhesion of the sealant to the substrate.

Limitations

- Refer to Substrate Preparation guidelines for proper preparation, cleaning and primer roof with any applicable bond enhancing primer before commencing with application of IB Silicone Coatings
- This product cures by water evaporation only. Do not attempt to apply product when weather conditions are not conducive to drying. Refer to temperature and relative humidity precautions.
- Application of materials with power spray equipment will require some masking and erection of wind screens to prevent over spray occurrences and damage to surrounding structures, surfaces, vehicles, property or persons.

Clean Up

IB Silicone Coating cures by reaction with moisture. Do not leave material on tools for prolonged periods as it will cure. Scrap off any dried materials.

Disposal

Empty containers must be disposed of in an approved landfill in accordance with local, state, and federal regulations.

Caution

Avoid prolonged and repeated contact with skin. Do not take internally. Avoid eye contact as this material has adhesive properties. Refer to product Safety Data Sheet (SDS) for additional information pertaining to this product and prior to use or handling.

Disclaimer

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Liability, if any, is limited to replacement of the product only.

LIMITED PRODUCT WARRANTY

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