



BaySil®

Silicone Elastomeric Coating

BaySil Coating is a high-solids, single component, fluid-applied silicone coating that’s ready to use. BaySil Coating is moisture cured, has low viscosity, and is designed as a protective coating for most roof membranes. BaySil Coating has superior adhesion to unprimed TPO, PVC, and EPDM and displays excellent performance over primed cap sheet and modified bitumen membranes.

Benefits

- Unsurpassed elongation ensure long-term, crack resistance
- Shelf life of 18 months
- Typically, no mixing is required for up to 6 months
- Less viscous to allow for ease of application

Colors

- White and Light Gray
- Custom colors are available (additional charge)
- Allow an extra 15 days for custom colors

Physical Properties

Property	Test Method	Result
Tensile Strength	ASTM D-2370	205 PSI at 73°F ± 20
Elongation (Break)	ASTM D-2370	468% at 73°F ± 50
Tear Resistance (Die C, lb f/in)	ASTM D-624	25
SRI	CRRC	110
Reflectivity (White)	ASTM C-1549	0.87
Emissivity (White)	ASTM C-1371	0.89
Permeance US Perms	ASTM E-96 (Procedure B)	6.7
Temperature Stability Range		-80°F to 350°F (-37°C to 177°C)
Weathering/UV Resistance	ASTM D-6694	No degradation 5000 hours
Specific Gravity		1.30 at 77°F (25°C)
Tack Free Time	Temp. & Humidity Dependent	20-30 min.
VOC	ASTM D-3960 EPA Method 24	<50 g/L
Durometer Hardness	ASTM D-2240 Shore A	36
Solids Content by Weight	ASTM D-1644	91%
Solids Content by Volume	ASTM D-2697	90%
Max Continuous Service Temperature		185°F (85°C)
Shelf Life - Unopened Containers	18 Months	Stored between 35°F to 75°F

Preparing Surfaces

Surfaces to be coated should be clean and dry, and free of dust, dirt, oil, loose granules, peeling coating, and any other foreign matter. It may be necessary to power wash and/or prime to enhance adhesion.

Application

This product can be brushed, rolled, or sprayed to clean and dry surfaces. Spray polyurethane foam should be coated within 24 hours of application. Coatings can be applied in 2 or 3 separate applications of contrasting

colors, with each layer applied at right angles to the previous coat. The coating must be evenly applied and pinhole-free. Before applying any additional coats, the prior coat must be completely dry and cured. If any contamination is present on the cured surface, it must be washed and allowed to dry completely before applying additional coats.

Application Properties	
Yield (1 gal to 100 sq ft)	14 dry mils
Dry Time (100°F)	2 hours at 90% Humidity
Dry Time (40°F)	8 hours at 20% Humidity
Recoat Window	>8 hours
Complete Cure	48 hours

Coverage Rate: Apply at a maximum rate of 1.5 gallons per square per coat.

Proper Equipment

At a minimum, brushes need to be synthetic filament and rollers a 1¼" nap roller.

Always use components that are rated for pump pressures. Do not use a hose that has been used for Acrylics. The hose liner will absorb moisture and start the silicone cure process.

Spray Equipment	
Airless Pain Pump	6500 psi minimum
	≥3 gal/min continuous output
	5:1 Transfer Pump
Hose	Rated to 2X max pump pressure
	BUNA-N jacketed (prevent moisture)
	Length: 3/4 minimum
Spray Gun	High-pressure 7000 psi
Spray Tip	Reversible self-cleaning type
	Orifice size of .030
	Fan angle of 40° to 50°

Environmental & Substrate Conditions

Product should not be applied if the ambient temperature is below 0° F. Application is also not recommended if rain or dew is likely to occur before the product fully dries. The surface must be clean and dry before application. Do not apply over wet substrates or when inclement weather is imminent. This product is not recommended for use without a vapor barrier on cryogenic tanks or cold storage roofing applications. It is not recommended directly applied over modified bitumen, asphalt, or coal tar built-up roofing systems without the use of a sealer. This product carries Class A Non-Combustible and Class B Combustible credentials as tested under UL 790 procedures over spray foam and single-ply roofing systems. Contact BaySeal Roofing Products or refer to the UL directory for specific information.

Health and Safety

This product is for professional use only. Before working with BaySil Coating you should read and become familiar with all the information on its risks, proper use, and handling, including the SDS and product labels. More resources are available at polyurethane.org and sprayfoam.org.

Cleaning

Always clean spray equipment containing uncured material by flushing with VM&P, Naphtha, or mineral spirits. BaySil Coating cures by reacting with moisture. Do not leave in spray guns, pump equipment, and hoses for prolonged periods (unless the equipment contains moisture lock hoses, fittings, and seals). Without the proper equipment, material will cure on hose walls and at unsealed connections, possibly leading to an increase in operating pressure and material flow restriction.

Technical Assistance: For additional assistance please contact the Technical Services Department of BaySeal Roofing Products at 972-542-0072.

Disclaimer: Technical information as shown in this document is intended to be used as general guidelines only. Please refer to the Safety Data Sheet and product label prior to using this product.

LIMITED WARRANTY INFORMATION: The information herein is to assist customers in determining whether our products are suitable for their applications. Our products are only intended for sale to commercial customers. Customer assumes full responsibility for quality control, testing, and determination of suitability of products for its intended application or use. We warrant that our products will meet our specifications contained herein. We make no other warranty of any kind, either express or implied, by fact or law, including any warranty of merchantability or fitness for a particular purpose. Our total liability and customers' exclusive remedy for all proven claims is replacement of nonconforming product and in no event shall we be liable for any other damages.

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