

ELASTOCOAT™ S-5000

SILICONE ROOF COATING

PRODUCT DESCRIPTION

ELASTOCOAT™ S-5000
Silicone Roof Coating is a moisture-cure silicone rubber roof coating system designed for use over spray-in-place polyurethane foam. Supplied as a one-part, ready-to-use material, it is available in four fade-resistant colors including dark gray, gray, beige and white.

APPROVAL/SPECIFICATIONS:

- Meets Factory Mutual Class I ratings over metal decks, existing built-up roofs and concrete decks.
- Meets UL-790 requirements for Class A ratings on noncombustible decks and Class B combustible decks.
- Complies with the Southern Building Code Congress International Standards (report 9414).
- Accepted by the International Conference of Building Officials (report 3735).
- Conforms to Building Officials and Codes Administrators International Standards (report 86-135).
- Complies with DOE Energy Star Program Criteria.

The controlled flow properties of the coating allow a continuous, even film to be applied even over rough surfaces.

Once cured, ELASTOCOAT S-5000 Silicone Roof Coating forms a tough, flexible membrane that is integral with the structure itself. When properly applied, the cured coating provides a weather-tight seal that will protect polyurethane foam from degradation caused by weathering, aging, oxidation, wind-driven sand, rain and snow and the effects of ozone and ultraviolet radiation. The membrane remains flexible even after exposure to temperature extremes typically seen on roofs.

The cured silicone rubber membrane is vapor permeable, having the ability to "breathe," and thus reduces both the chances of blistering caused by vapor pressure in the substrate and the possibility of damage to the substrate caused by entrapped water.

TEST	UNIT	RESULT
As Supplied		
Appearance		Dark gray, gray, beige or white
Solids Content,		
by weight	%	76
by volume	%	66
Flash Point, closed cup	°F	106
Specific Gravity, at 77°F (25°C)		1.43
Tack-Free Time	minutes	20
Dry Time	hours	3.5
Volatile Organic Content (VOC)	G/L	250
As Cured		
Durometer Hardness, Shore A		50
Tensile Strength, Die C	lb/in ²	350
Elongation (at break)	%	200
Permeability ¹	perms	3.3
Tensile set, (at 100 percent elongation)		Nil
Temperature Stability Range	°F (°C)	-35 to 212 (-37 to 100)
Weatherometer, Carbon-Arc, 4,000 hours		No degradation
QUV, 10,000 hours		No degradation
¹ 20 mils at 100°F (38°C) and 90 percent relative humidity.		

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BASF
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BASF Polyurethane
Foam Enterprises LLC

HOW TO USE:

When properly applied and cured, ELASTOCOAT S-5000 Silicone Roof Coating provides one of the fastest, easiest and most effective methods of keeping polyurethane foam roofs weather resistant. For best protection, apply the full polyurethane foam thickness and silicone basecoat the same day. Apply at temperatures above 40°F (4°C). Thinning, when authorized by BASF, and clean up with VM&P Naphtha ONLY.

PREPARATION:

Surfaces to be coated with ELASTOCOAT S-5000 Silicone Roof Coating must be prepared and the coating applied as described in BASF printed instructions and guide specifications. All surfaces must be clean, dry and frost-free.

ELASTOCOAT S-5000 Silicone Roof Coating is applied in two coats of contrasting colors at a rate of at least 1 gallon per 100 square feet for each coat, using the material as supplied. Apply using conventional, airless spray equipment (a medium-nap, solvent-resistant paint roller or brush may be used for touch-up work).

Cure time for each coat may vary from 2 to 6 hours, depending on temperature and humidity. Unless a greater thickness is required by the Special Warranty selected, the minimum combined cured thickness of basecoat and topcoat must be 15 mils. Optional application of #11 standard roofing granules may be made according to BASF printed instructions to improve impact and wear resistance, to provide non-slip service walk areas, or for aesthetics.

MAINTENANCE:

The life of a roof may be extended by regularly scheduled maintenance. A roof should be inspected at least twice a year and immediately following severe weather, extraordinary maintenance or work on roof-mounted equipment. If the coating becomes damaged, refer to BASF's printed instructions and specifications for repair information.

USABLE LIFE AND STORAGE, PACKAGING, LIMITATIONS:

ELASTOCOAT S-5000 Silicone Roof Coating has a shelf life of 12 months from date of manufacture. Refer to product packaging for "DOM" (Date of Manufacture) date. It is available in 55-gal containers, and should not be used on the outside of cold vessels, coolers or freezers without an additional vapor retardant coating. This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

HEALTH AND ENVIRONMENTAL INFORMATION:

BASF has an extensive Product Stewardship organization and a team of Product Safety and Regulatory Compliance (PS&RC) specialists available in each area. Consult MSDS and/or your local BASF representative.

LIMITED WARRANTY INFORMATION – PLEASE READ CAREFULLY:

Various Special Warranties may be purchased from BASF Corporation. These include Full System Limited Warranties for 5 to 20 years and Coating-Only Limited Warranties for 5 to 20 years. Special warranties are available only when the roof system is applied by a BASF Approved Applicator in strict accordance with BASF's application specifications for the particular warranty package selected. If no special warranty is purchased, BASF's Standard Product Warranty applies. For details on all available warranties, contact your BASF Roofing Specialist.

WARNING: Polyurethane products manufactured or produced from these chemicals may present a serious fire hazard if improperly used or allowed to remain exposed or unprotected. The use of polyurethane in interior applications on walls or ceilings presents an unreasonable fire risk, unless the foam is Protected by an approved fire-resistant, fifteen-minute thermal barrier. The character and magnitude of any such hazard will depend on a broad range of factors, which are controlled or influenced by the manufacturer, applicator or production process. Each person, firm, or corporation engaged in the manufacture, production, application, installation or use of any polyurethane materials should carefully determine whether there is a potential fire hazard associated with such specified usage, and utilize all appropriate precautionary and safety measures as outlined in Local, State and Federal regulations governing the manufacture of products or the construction and/or renovation of commercial or residential structures. Elastospray and ZONE3 are registered Trademarks of BASF Corporation.

The information herein is believed to be reliable, but unknown risks may be present. BASF Corporation warrants only that the materials shall be of merchantable quality; this warranty is in lieu of all other written or unwritten, expressed or implied warranties and BASF Corporation expressly disclaims any warranty of fitness for a particular purpose, or freedom from patent infringement. Accordingly, Buyer assumes all risks whatsoever as to the use of these materials. Buyer's exclusive remedy as to any breach of warranty or negligence claim shall be limited to the purchase price of the materials. Failure to strictly adhere to recommended procedures shall relieve BASF Corporation of all liability with respect to the materials or the use thereof.

Sales Information:
Minneapolis, MN
1-800-888-3342

Technical Information:
Houston, TX
1-800-706-0712

www.basf-pfe.com



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