

DAVLIN ROOFSEAL® SILICONE MASTIC SEALANT



Technical Data Sheet | High-Solids Silicone Roof Coating

TECHNICAL PRODUCT DATA | SINGLE-COMPONENT MOISTURE-CURE | DAVLIN SILICONE SYSTEM

PRODUCT CHARACTERISTICS

ROOFSEAL® SILICONE MASTIC SEALANT is a high-solids silicone liquid flashing formulated for roof details, repairs, and restoration work. It is designed to create a watertight liquid flashing at intricate roof areas while providing low VOC performance, reflectivity, UV resistance, excellent vertical hang, and performance under ponding water.

TYPICAL USES

- Spot repairs
- Reinforce seams, flashings and penetrations
- Seal joint and penetration repairs for solar systems and air conditioning systems

COLOR / PACKAGING

Color: White and Aluminum

Packaging:

3 1/2-Gallons Pail
2 Gallons Pail

STORAGE AND SHELF LIFE

Storage and shelf life: ROOFSEAL® Silicone Mastic Sealant has a shelf life of one (1) year from date of manufacture in original, factory-sealed containers when stored indoors at a temperature between 32-100°F (0-38°C). Keep containers closed and store in a dry, cool place elevated and away from direct sunlight, heat, sparks, open flame, and moisture.

MANUFACTURER INFORMATION

Davlin Coatings LLC
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Made in the USA | Designed by Davlin in California
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HIGH-SOLIDS | SILICONE | LIQUID FLASHING

Detail-grade sealant for repairs, penetrations, seams, and flashings

PRODUCT OVERVIEW

ROOFSEAL® SILICONE MASTIC SEALANT is an enhanced high-solids silicone formula for use with a variety of liquid coatings and roof membranes. It is designed to form a watertight liquid flashing at intricate roofing areas and details.

The single-component, moisture-cure liquid flashing provides low VOC performance and is formulated for durable, reflective, UV resistant detailing. It offers excellent vertical hang and performs well under ponding water.

FEATURES AND BENEFITS

May be used over modified bitumen, built-up roofing, metal, spray polyurethane foam, wood, concrete, and a variety of single-ply systems. Fast curing time helps the applicator save time. It can be used as part of a complete cool roof restoration system for the Davlin Silicone System and for repairs of existing systems, including flashings, penetrations and seams.

SUITABLE SUBSTRATES

Mod. Bit

BUR

Metal

SPF

Wood

Concrete

Single-Ply

96±2

SOLIDS
VOLUME

39.5

VOC G/L

50,000

VISCOSITY
CPS

300

TENSILE
PSI

200%

ELONGATION

24 hrs

RECOAT
WINDOW

COVERAGE

Coverage: The first coat should be applied at the rate of 1.5 gallon/100 square feet. Dry film thickness, exclusive of aggregate, is 24 ± 2 mils per coat at rate of 1.5 gallon/100 sqft. For metal roofs, fasteners coverage count per 3.5 gal pail is 1400 square feet. For seams, 3.5 gal pail @ 24 wft, 6" on center will cover 295 linear feet.

APPLICATION SNAPSHOT

Prior to coating any surface, verify adhesion by performing an adhesion test (ASTM D903). Review all technical data sheets, system sheets, labels, instructions, SDS, and Guide Specifications before applying. Cure time will vary based on temperature and atmospheric conditions.

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TECHNICAL DATA (Based on Draw Down Film)

Physical Property	Test Method	Value
Hardness Shore A	ASTM D2240	45 - 55
Tensile Strength Die C (psi)	ASTM D412	300
Tear Strength (pli)	ASTM D6624	45
Elongation (%)	ASTM D412	200
Specific Gravity		1.31
Total Solids by Weight (%)	ASTM D2697	96 ± 2
Total Solids by Volume (%)	ASTM D2697	96 ± 2
Viscosity @ 75°F (24°C) (cps)	ASTM D2369-81	50,000
Volatile Organic Compound (VOC gms/liter)	ASTM D-2369-81	39.5
Recoat Window		24 hrs.

INSTALLATION / SAFETY NOTES

TYPICAL USE / SYSTEM ROLE

Use for spot repairs, seams, flashings, penetrations, solar system penetrations, air conditioning system penetrations, and repair work on existing systems. The product may be used as part of a complete Davlin Silicone System cool roof restoration assembly.

HEALTH AND SAFETY

Health and Safety: DAVLIN is committed to the health and safety of our customers. DAVLIN products shall only be installed by certified contractors. Applicators are required to follow all proper handling, safety and installation procedures. Safety Data Sheets (SDS) are available on this material. Any individual who may come in contact with these products should read and understand the SDS. Avoid breathing of vapor.

SKIN / EYE CONTACT

Skin Contact: To prevent excessive skin contact, use neoprene or other resistant gloves. Skin contact with liquid components can result in a rash or other irritation. Wash the affected skin area with water. Wipe residual liquid from the skin with a clean cloth, then wipe the affected area with 30% solution of rubbing alcohol. Follow with repeated washings with soap and water. If irritation develops, see a physician.

Eye Contact: Wear a full-face mask or OSHA-approved protective goggles. Eye contact with liquid or sprayed components can result in corneal burns or abrasions. Upon exposure, flush eyes with water for an extensive period. SUMMON EMERGENCY TRAINED MEDICAL ATTENTION IMMEDIATELY.

FLAMMABILITY

Flammability: Flash point is 142°F (61°C). Avoid open flame or spark sources and excessive heat. Vapors are heavier than air and may travel along the ground or be moved by ventilation and ignited by pilot lights, flames, sparks, heaters, smoking, electric motors or other ignition sources at locations distant from the material-handling point. Never use a welding or cutting torch on or near the material. In case of fire, use CO2, steam, dry chemicals or water fog.

TECHNICAL SERVICES

Technical Services: Additional information, product brochures, and guide specifications are available. Roof energy evaluations, life cycle cost analysis, and other roof management services are also available from a DAVLIN Technical Consultant.

APPLICATION REQUIREMENTS

ROOFSEAL® Silicone Mastic Sealant is applied by brush or trowel at thicknesses up to 0.25". It should be applied directly from the container without thinning. Do not apply when temperatures are below 40°F (4.4°C) or when precipitation is in the forecast within 8 hours. To avoid pin holes and blistering, it should not be applied at a rate thicker than 24 wet mils in one application.

SURFACE / ADHESION REVIEW

Prior to coating any surface, confirm adhesion by performing an adhesion test (ASTM D903). Review all technical data sheets, system sheets, labels, instructions, SDS, and Guide Specifications before applying. Cure time will vary based on temperature and atmospheric conditions.

PRODUCT DISCLAIMER

The information contained herein is for purposes of identifying the product and does not constitute a warranty that the product will conform to that description. Product specifications and performance will vary depending on application methodologies, raw materials and other factors.

