

NanoTech Materials Roof Sealant

High Solids Sealant for Silicone Systems

NanoTech Materials Roof Sealant for Silicone Systems is a high-solids, single-component, moisture-cure silicone flashing grade that is ready to use and offers superior flexibility for long-term crack resistance, even in high-movement applications. It has an excellent shelf life, typically requiring no mixing for up to 6 months. With excellent sag resistance, superior weathering, and exceptional water resistance in a breathable membrane, it also provides outstanding adhesion to unprimed, weathered TPO, PVC, and EPDM surfaces.

RECOMMENDED USES:
NanoTech Materials Roof Sealant for Silicone Systems is designed as a protective coating for a wide range of roof membranes, offering unmatched adhesion to unprimed, aged TPO, PVC, and EPDM, as well as excellent performance over primed cap sheet and modified bitumen membranes.

TECHNICAL DATA:

Property	Test Method	Result
Tensile Strength	ASTM D-2370	205 PSI @ 73°F ± 20
Elongation (break)	ASTM D-2370	468% @ 73°F ± 50
Tear Resistance (Die C) lb f/in	ASTM D-624	25
SRI	CRRC	110
Reflectivity (White)	ASTM C-1549	.86 (Aged 3 yr: .73)
Emissivity (White)	ASTM C-1371	.92 (Aged 3 yr: .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 @ 77°F (25°C)
Tack Free Time	Temp. & Humidity Dependent	20-30 min.
VOC	ASTM D-3960 EPA Method 24	<50 grams/liter
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		12 months stored @ 35°F to 75°F

COLORS / PACKAGING & SHIPPING INFORMATION:

Color: White, Gray, or Black

Container Size	Shipping Class
2 Gallon pail	Class 55

SURFACE PREPARATION:
The surface to be coated must be dry and free of dust, dirt, oil, loose granules, peeling coatings, or any other contaminants. Power washing and/or priming may be required to improve adhesion.

COVERAGE RATE:

Typically applied to seams at 48 wet mils (3 gal/100 sq ft).

APPLICATION:

This product can be applied using a brush or trowel. If the cured surface is contaminated, it must be thoroughly cleaned and completely dry before applying additional coats.

Application Properties

Property	Value
Yield (1 gal to 100 sq ft)	15 dry mils
Dry Time (100°F)	2 hours @ 90% humidity
Dry Time (40°F)	8 hours @ 20% humidity
Recoat Window	>8 hours
Complete Cure	48 hours

ENVIRONMENTAL CONDITIONS:

The product must not be applied when the ambient temperature is below 35°F. Application is not recommended if rain or dew is likely to occur before the product dries.

PONDED WATER:

- NanoTech Materials warranties do not cover damage due to ponding water.
- The National Roofing Contractors Association considers ponding water on any roof unacceptable. (See the NRCA Roofing and Waterproofing Manual).

LIMITATIONS:

The surface must be clean and dry. Application is not recommended on roofs with slopes less than 1/8 in 12 or where ponded water is present. Do not apply over wet substrates or when inclement weather is imminent. In addition, this product is not recommended for use without a vapor barrier in cryogenic tanks or cold storage roofing applications or directly over modified bitumen, asphalt, or coal tar built-up roofing systems without 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. For optimal performance, this product must be applied at a minimum humidity level of 20%. Contact NanoTech Materials directly for more information.

SAFE PRACTICES:

This product is designed for professional installation. Before working with this product, you must read and become familiar with the available information on its risks, proper use, and handling. Information sources include but are not limited to SDS and product labels. More resources are available at nanotechmaterials.com, or by contacting your NanoTech Materials representative directly.

CLEAN UP:

Clean spray equipment containing uncured material by flushing with VM&P naphtha or mineral spirits. NanoTech Materials Roof Sealant for Silicone Systems 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 these, the material will cure on hose walls and at unsealed connections, possibly causing an increase in operating pressure and material flow restriction.

EQUIPMENT:

Minimum requirements:

Brush: Synthetic filament