NanoTech Materials Roof Sealant

Acrylic Latex Elastomer

NanoTech Materials Roof Sealant is a high quality, plasticizer-free, water-based, 100% acrylic flashing grade elastomeric coating for brush or roller application. Designed to provide a long-lasting flexible membrane that will retain this flexibility even in the harshest climatic conditions, it has excellent adhesion to most materials including masonry, PVC, polyurethane foam, concrete, metal, and primed wood. It has the unique ability to "breathe," providing a completely watertight membrane while allowing trapped moisture to escape.

RECOMMENDED USES:
NanoTech Materials Roof Sealant is intended as a flashing material for most substrates and as a sealer for fasteners and seams in metal roofing applications only used in conjunction with fabric.

TECHNICAL DATA:

Property	Test Method	Result
Elongation	ASTM D-370	500% ±25
Tensile Strength	ASTM D-2370	100 psi ±25
Perms	ASTM D-1653	7
Solids Volume	ASTM D-1644	64% ±2
Solids Weight	ASTM D-370	74% ±2
VOC	ASTM D-624	< 50 g/Liter
Density	EPA Method 24	11.7 lbs/gal
Temperature Limit		0°F to 185°F
Low Temp Flexibility	ASTM D-522	Passes 180° Flex over ½ Mandrel @15°F

COLORS / PACKAGING & SHIPPING INFORMATION:

Color: Gray

Container Size	Shipping Class
55 Gallon drum (208.2 liters)	Class 55
5 Gallon pail (18.9 liters)	Class 55

SURFACE PREPARATION:
Surfaces to be coated should be dry, free of dust, dirt, oil, loose granules, gravel, peeling coating, and other foreign matter.

COVERAGE RATE:

Apply NanoTech Materials Roof Sealant at the rate of 1.5 gallons per 100 sq. ft. (24 wet mils). Surface texture and wind will affect applied mil thickness.

APPLICATION:

This product may be rolled on a clean, dry surface. For details, see Equipment Recommendations at the end of this sheet. Apply as a flashing for most substrates. Material can be used in combination with fabric in most flashing applications. For fasteners, the fastener must be tight. Apply enough material to completely cover the fastener and form a circle of material a minimum of 1 inch around the fastener.

Application Properties

Property	Value
Yield (1 gal to 100 sq ft)	10 dry mils
Dry Time (75°F 50% humidity)	4 hours
Recoat Window	>6 hrs
Complete Cure	24 hours

ENVIRONMENTAL CONDITIONS:

This product cures by water evaporation only. The product must not be applied when the ambient temperature is below 50°F or if there is any possibility it could fall below 32°F within 24 hours of application. Application is not recommended if rain or dew is likely to occur before the product dries. In high humidity conditions, late afternoon applications should be avoided as overnight dew formation on an uncured surface can cause coating wash-off.

PONDED WATER:

- NanoTech Materials coatings are not warranted to perform under 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 where ponded water is present. Do not apply over wet substrates or when inclement weather is imminent. Complete cure of NanoTech Materials Roof Sealant requires complete evaporation of water. Cool temperatures and high humidity retard cure. In addition, this product is not recommended for use without a vapor barrier in cryogenic tank or cold storage roofing applications. It is not intended for use as a thermal barrier.

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.

EQUIPMENT:

Minimum requirements:

Roller: 1¼" nap roller