NanoTech Materials Bleed Blocker

Water Resistant Acrylic Base Coat for Smooth Asphalt Surfaces

NanoTech Materials Bleed Blocker is a high-quality, plasticizer-free, single-component, water-based, 100% acrylic elastomeric coating. It is engineered to provide maximum adhesion and bleed-through resistance over smooth asphalt surfaces—even in the presence of water—and is formulated to act as a barrier that blocks discoloration. When reinforced with fabric, it is designed to tolerate some standing water, and it may be used over smooth or granulated substrates. NanoTech Materials Bleed Blocker adheres to most aluminized coatings (adhesion should be verified before application) and has the unique ability to breathe, providing a completely watertight membrane while allowing trapped moisture to escape.

DESCRIPTION:

- High-quality, plasticizer-free, single-component, water-based, 100% acrylic elastomeric coating
- Provides maximum adhesion and bleed-through resistance over smooth asphalt, even in the presence of water
- Designed to tolerate some standing water when reinforced with fabric
- May be used over smooth or granulated substrates
- Adheres to most aluminized coatings (adhesion should be verified before application)
- Formulated to act as a barrier that blocks discoloration
- Breathes—provides a completely watertight membrane while allowing trapped moisture to escape

RECOMMENDED USES:

NanoTech Materials Bleed Blocker is designed as a base coat for application over smooth-surface asphalt such as built-up and modified bitumen substrates. It may be used in low areas and waterways when combined with reinforcing fabric. With a suitable top coat, it provides an exceptional protective system for asphaltic membranes. Consult your NanoTech Materials representative for top coat recommendations.

TECHNICAL DATA:

Property	Test Method	Result
Tensile Strength	ASTM D-2370	100 psi ±25
Elongation	ASTM D-370	980% ±25
Perms	ASTM D-1653	3
Solids Content by Weight	ASTM D-370	65% ±2
Solids Content by Volume	ASTM D-1644	50% ±2
Density	ASTM D-370	11.4 lbs/gal
VOC	Method 24	<50 g/liter
Flash Point	ASTM D-1310	>212°F
Temperature Limit	—	0°F to 185°F
Low Temp Flexibility	ASTM D-522	Passes 180° F Flex over 1/8 Mandrel @ =30° F
Cure Time	—	24 hours (depending on temp. & humidity)
Dry Time	—	5 hours at 75°F @ 50% humidity

Values shown are typical properties and are subject to normal manufacturing tolerances. For Professional Use Only.

COLORS / PACKAGING & SHIPPING INFORMATION:

Colors: Ivory – Satin Flat

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 and free of dust, dirt, oil, loose granules, peeling coating, or other foreign matter.

APPLICATION:

This product may be brushed, rolled, or sprayed on a clean, dry surface. Hand application can be done with a squeegee and roller. In waterways or low areas, the material should be applied as follows: apply NanoTech Materials Bleed Blocker at a rate of 1 gallon per square (100 sq ft); immediately embed a layer of polyester mesh fabric in the wet coating; immediately apply a further application of Bleed Blocker at a rate of 1 gallon per square; and allow to cure for at least 24 hours. It is critical that the coating be allowed to cure for a MINIMUM of 24 hours, and even longer in cool or high-humidity environments.

Note: Blistering will occur if the top coat is applied over a base coat that is not completely dry. If any contamination of a thoroughly cured surface occurs, it must be washed with a chemical cleaner before applying subsequent coats.

APPLICATION PROPERTIES:

Dry Time (75°F, 50% humidity)	5 hours
Complete Cure	24 hours (minimum)
Coverage Rate (waterway/low-area system)	1 gallon per square (100 sq ft) per coat

ENVIRONMENTAL CONDITIONS:

The product should not be applied when the ambient temperature is below 32°F or if the temperature will fall to within 5 degrees of the dew point within 6 hours after application. Do not apply in the late afternoon if high humidity exists, as it may cause heavy moisture condensation on the surface overnight.

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. NanoTech Materials Bleed Blocker is water-based and requires evaporation to cure; the material must cure for at least 24 hours. Low temperature and high humidity will slow the curing process and, in these situations, even longer cure times will be necessary. Do not apply if there is any moisture on the substrate or a risk of precipitation. Blistering will occur if the top coat is applied over a base coat that is not completely dry. Where there is a risk of vapor drive—such as cold storage and refrigerated tank applications—a suitable vapor barrier must be present. NanoTech Materials Bleed Blocker is not intended 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 the Safety Data Sheet (SDS) and product labels. This product is intended solely for use by trained and approved professional applicators. More resources are available at nanotechmaterials.com or by contacting your NanoTech Materials representative directly.

EQUIPMENT:

Minimum requirements:

Brush: Synthetic filament

Roller: 1¼ in. nap roller

Spray

- Standard contractor gun—no filters
- Pressure: 3,000 psi at 2.5–3.0 gal/min
- Tip: .017–.029 reversible, self-cleaning, with 40–50° fan angle
- 12-inch wand extension recommended
- 3/8 in. line for the rated pressure