NANOTECH MATERIALS

NanoTech Insulator

Application & Technical Manual





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1.0 Safety Precautions

NanoTech Materials, Inc. has as a core value for the safety of all the lives that our company touches.

As a material science company, we have a relentless commitment to safety, from our R&D protocols through our day-to-day production operations, to our training materials for our end users. Safety for us, however, is not just physical. We strive for a culture of tolerance and respect across our operations. We are an inclusive and diverse team, where all talented individuals are welcome and respected.

The purpose of this manual is to ensure your safety and to provide installation instructions for proper adhesion and performance in accordance with manufacturer specifications. Installation of NanoTech Materials Inc. NanoTech Insulator requires the use of a texture or airless equipment that will allow the installer to apply the product at a larger scale. The use of rollers and brushes may be used for areas that are hard to reach or small (minor) areas. Scaling heights required to install the product on tanks, containers, or structures can be slippery. Adding a liquid coating will make surfaces more slippery and increase the chance of falling. Professional installation with harnesses and fall protection measures is highly recommended. The purchase and use of this product implies an understanding and acceptance of the risks of using high pressure equipment. Buyer agrees to hold NanoTech Materials, Inc. harmless and indemnify NanoTech Materials, Inc. against any and all accidents, damages, claims, or death, resulting from improper use or lack of safety considerations when using or installing our products. To ensure proper application and application longevity, NanoTech Insulator must be mixed and applied in accordance with the application instructions for successful adhesion and maximum insulation capability. The mixing process should take place at ground level on a flat even surface. NanoTech Materials, Inc. recommends placing a tarp, cardboard, plastic sheet, or other similar protective covering under the bucket to mitigate splashing and minimize the chance of product sticking to undesired surfaces.

Always install NanoTech Materials, Inc. NanoTech Insulator in accordance with OSHA (latest edition) standards.

For product-specific safety guidelines, refer to the Safety Data Sheet (SDS) in the Appendix.

1.1 Product Description

NanoTech Materials, Inc. NanoTech Insulator is a water based acrylic polymer coating system. As with other acrylics, the application is best performed above 40°F (4°C). Do not allow the product to freeze. Store in a cool dry place. Surface temperature of substrate should be between 40°F and 120°F for proper adhesion. In instances where NanoTech Insulator is exposed to temperatures below 40°F (4°C) it is vitally important that all containers of the NanoTech Materials, Inc. NanoTech Insulator be thoroughly mixed to ensure proper adhesion and performance longevity.

2.0 Equipment Needed

Necessary equipment for proper installation of NanoTech Insulator may include, but is not limited to, the following:

- Gloves
- Eye protection
- Dust Mask
- Industrial scissors
- Chalk line
- Flat or serrated squeegee
- Utility knife
- Measuring tape
- Rags
- Writing/marking instruments.
- T-square/straight edge
- Stir sticks.
- Rollers and brushes
- Protective sheeting
- Masking/painters tape
- Wire brush
- Trowels

2.1 Recommended Equipment for Application (Sprayer):

1. Graco Gas/Hydraulic Sprayer with 2.5 GPM minimum intake
2. Tested Models:
   a. GH 300

   b. GH 675
   c. GTX 2500 or larger texturizer models
   d. Graco STX Air Assist Spray Gun
   e. Graco Tip, 0.031" or Larger
   f. Graco Tip Guard, Part No. GR243161
      OR
   g. Paint roller/Paint brush.
3. Notched Wet Mil Gauge
4. Type II Electronic Dry Film Thickness Measurement Equipment

2.2 Cleaning and Usage

Clean the spraying machine immediately after use to avoid the resin from curing inside the pump and the hose. Follow the manufacturer's standards on cleaning procedures. Use and service the spraying machine following the manufacturer's recommendations.

3.0 Manufacturer's Specifications

The NanoTech Materials, Inc. NanoTech Insulator is a high-performance, elastic, polymeric coating formulated with Nanotech's patented additive used to provide high emissivity values as well as its low thermal conductivity constant. The coating is an insulator designed for optimal performance in areas with persistent condensation which have passed ISO 6270-1:2017 and exhibited no blisters, peeling or delamination. The coating has successfully passed NACE TM21423, and can be applied to high-temperature assets, effectively reducing their surface temperature to a cool, ambient touch. With the dual properties acting as a high temperature thermal barrier, this product is highly efficient. The product reduces condensation to the substrate's surface. In addition the coating does not promote corrosion under insulation (CUI) when applied over an approved primer. Thoroughly review The Safety Data Sheet (SDS) in the Appendix to review the following important information:

- Safety information for personnel and the environment
- First aid measures
- Chemical composition and classification
- Material handling and storage
- Regulatory and legal information

NanoTech Materials, Inc. NanoTech Insulator is resistant to humidity and does not promote CUI as tested per the standards outlined below:

1. NACE TM21423 – Test method for determination of substrate and surface temperature limits for insulative coatings used for personnel protection.
2. ISO 9227:2017 - Corrosion tests in artificial atmospheres — Salt spray
3. ISO 6270-1:2017 – Paints and varnishes — Determination of resistance to humidity
   Part 1: Condensation (single-sided exposure)
4. ISO 12944-5:2019 – Paints and varnishes — Corrosion protection of steel structures by protective paint systems.
5. ASTM E1269 – Standard Test Method for Determining Specific Heat Capacity by Differential Scanning Calorimetry.

3.1 NanoTech Insulator Maintenance

The effectiveness of this coating is due to its combination of high emissivity and low thermal conductivity. Emissivity, a surface phenomenon, is most effective when the coating is directly exposed to the heat flux source. Because of its high emissivity, the coating does not retain heat but instead reflects it back to the source. Additionally, the coating's low thermal conductivity, a key aspect of its insulating chemistry, creates a gradient that significantly reduces heat transfer. NanoTech recommends yearly inspections to check for:

1. **Wear, Abrasion, or Tears**
   This can be caused by repeated and/or extensive abrasion of hard materials striking against the coating. An example is a tool or construction object falling from higher elevations hitting the coating. Lifting equipment or material handling may cause damage to the coating if work is being conducted in the area, and the equipment or cargo, brush or strike, against the coating.

2. **Water swelling**
   The product is water resistant, however prolonged water submersion (more than 48 hours) can cause water swelling and damage the product. They may occur during a flood event.

3. **Damage**
   If the product is damaged, immediately remove the loose coating and inspect if the area for dirt contamination or any foreign matter. If dirt is present, the coating can be cleaned with a soap and water mixture (soapy water) and soft brush or a power washer. Solvents

shall NOT be used to clean the surface of the coating. Please make sure the tip of the power washer is at least 18 inches away from the coating with a wide opening for the tip. Test in a small area first to ensure the coating will not be stripped by a designated water pressure. For stubborn substances or organic growth use a 5:1 water-to-bleach mix to clean the product.

Once achieved, use a brush to apply the NanoTech Materials, Inc. NanoTech Insulator coating to the damaged area, gradually building up the thickness to blend with the surrounding surface. Allow the product to cure as specified in the installation instructions.

4.0 Universal Substrate Preparation

For non-ferrous substrates, the use of a primer is not needed. To ensure proper adhesion to the non-ferrous substrate, the surface of the non-ferrous metal needs to have a matte or dull finish. Sand the surface with a fine to medium sandpaper prior to applying the NanoTech Insulator. The surface should be sufficiently sanded when all glossy appearance is gone. Remove all loose material from the surface.

Wash substrate with clean water or denatured alcohol. All surfaces should be clean, dry, and free of debris, dirt, grime, etc. Do not use solvents, degreasers, or any other chemical prior to application. If these chemicals are to be used, you must ensure a final wash with clean water has been performed and the substrate is dry and entirely free of any residue.

4.1 Metal Substrate Preparation

Follow the surface preparation as outlined by the primer manufacturer for metal substrates. Ensure that the NanoTech Insulator is applied within the recoat window of the primer manufacturer.

Standard Application Substrate Temperature 40F up to 120F

1. Ensure that an approved corrosion inhibitive primer has been applied in accordance with manufacturers' recommendations.
2. Apply 55 mils (WFT) of the NanoTech Insulator coating to the surface and allow it to completely dry. This will achieve cool touch conditions for temperatures up to 275F.
3. Allow approximately 1.5 to 10 hours to completely dry prior to applying the subsequent coat of NanoTech Insulator. Temperature and humidity will affect the recoat window. Refer to the product data sheet for recoat/curing schedules.
4. Once the coating is completely dry, proceed with another 55 mils of the NanoTech Insulator coating to the surface. This will achieve cool touch conditions for temperatures up to 350F.

High Application Substrate Temperature 120F up to 200F (Applied on Operating Equipment)

NanoTech Insulator can be applied on actively operational equipment up to 200F, allowing for ease of application without disrupting operations.

1. Apply a 10-mil tack (mist) coat of the NanoTech Insulator coating to the surface and allow it to completely dry. Observing steam or vapor emanating from the metal surface is completely normal and is expected.
2. Apply a 10-mil tack (mist) coat of the NanoTech Insulator coating to the surface and allow it to completely dry. Observing steam or vapor emanating from the metal surface is completely normal and is expected.
3. Allow approximately 30 minutes to 1 hour for the tack coat to completely dry prior to applying the subsequent coat of NanoTech Insulator.
4. Once the coating is completely dry, proceed with another 55 (WFT) mils until desired thickness is achieved.

4.2 Fiberglass Substrate Preparation

Wash with water, wipe, and clear or remove any dirt, debris, dust, grime, or foreign substances from the substrate. Follow substrate manufacturer's specifications for cleaning the substrate prior to applying the NanoTech Materials, Inc. NanoTech Insulator product. Any cleaning agents that are used to clean the substrate must be removed prior to applying the NanoTech Insulator product. Any and all substrate repairs or imperfections that might compromise the substrate or coating must be remediated before applying NanoTech Insulator. Pressure wash if possible and allow to dry thoroughly before applying the coating membrane. Nanotech Materials recommends taping off any adjacent areas to prevent applying to areas you wish to keep clear. A primer is generally unnecessary with the NanoTech Insulator, however in instances where the surface is extremely resistant to adhesion, a standard coating primer or light abrasion might be necessary to ensure a mechanical bond. Surface should be clean and thoroughly dry prior to application.

4.3 Product Preparation

NanoTech Insulator requires approximately three (3) to ten (10) minutes of even mixing prior to application. The time required for proper mixing depends on temperature. The insulative coating is fully mixed when the mixture appears smooth and free of clumps in the bucket. This is advisable to ensure a consistent finish and prevent sedimentation that might clog sprayers. NanoTech Insulator recommends the use of a portable impact drill and ribbon mixer paddle. The NanoTech Insulator is ready for application when no visible chunks or clumps are

present in the mix and the product has a smooth, thick, paint-like consistency. Remember to place containers on top of a sacrificial surface (plastic sheet, tarp, cardboard, etc.) to prevent spillage onto the floor or ground.

Application (NanoTech Insulator):

1. Apply the first coat of the NanoTech Insulator evenly and allow to dry. Recommended wait time between coats is 45-75 minutes at 77F @50% relative humidity. High humidity conditions and low temperatures will lengthen the wait time.
2. NanoTech recommends using a notched or wet mil gauge in accordance with ASTM D4414 "Standard Practice for Measurement of Wet Film Thickness by Notch Gages" which can be found at most paint stores to ensure proper coating thickness.
3. For substrate temperatures up to 275F, apply a single coat at a wet film thickness (WFT) of 55 mils thick which will have a dry film thickness (DFT) of 40 mils.
4. For substrate temperatures from 276F up to 350F, apply two coats at WFT of 55 mils thick. Once this cures, the total dry film thickness measured with a DFT gauge should be approximately 80 mils thick.
5. In hot and/or windy conditions NanoTech Insulator may dry/cure faster than expected.
6. Do not allow product to get wet, dirty, or be disturbed during initial cure.
7. Apply additional coats as needed to achieve desired finish. Adding more product will increase the performance results. When it comes to the NanoTech Insulator t, the thicker the coating, the greater the performance.
8. Be sure to remove the tape prior to full cure. This will ensure a clean line is left on the substrate and prevent pealing of the coating.
9. If tape is not removed before a full cure, we recommend gently running a dull knife along the seam of the tape and pulling carefully to ensure a clean break between the tape and the product.
10. If product starts to lift with the tape, carefully remove the lifted product and reapply the coating to the area for coverage.

Best Practices:

While standing in the middle of your coating project, start applying product to the edges first and work your way back to the middle of the structure. In this way you can prevent backing yourself into a corner or walking backwards off a scaffold or ladder. You'll want to apply product to the furthest location from your ladder and work back to that ladder. The last piece coated should be applied while standing off of the structure.

If using a sprayer to apply product, you'll want at least a 31/1000th spray tip (i.e. 331, 431, 531, 631, etc.). See recommended equipment on page 1. Taping procedures will be the same as if you were hand applying the coating. NanoTech recommends draping sheet plastic or tarps over adjacent surfaces or surroundings to avoid overspray during application.

Cure Time/Recoat Schedule:

The NanoTech Insulator should be fully cured in 48 hours based on 55 (WFT) at 77F @ 50% relative humidity for a single coat. After the first coat is applied, it is recommended to wait at least 5 hours at 77F @ 50% relative humidity prior to the second coat of NanoTech Insulator.

5.0 Cleaning and Usage

Clean the sprayer immediately with water after use to avoid curing the resin inside the pump and the hose. Follow the manufacturer's standards on cleaning procedures. Please remove all filters from the spray gun and sprayer. This is very important step during for the proper application of insulative coating.

Use and service the spraying machine following the manufacturer's recommendations.

Minimal environmental considerations are required for clean-up as the NanoTech Insulator t is an low VOC product. NanoTech recommends placing waste into original containers to be disposed of in accordance with local waste disposal guidelines. Nontoxic, biodegradable cleaning products should be used to clean areas of overspray. Scrub with a sponge or scrape from glass with a plastic scraper. Acrylic cleaners, solvents, and mineral spirits can be used in situations where they will not harm the environment. When in doubt, use a strong abrasive dish sponge and water to remove the product.

ALWAYS DISPOSE OF CHEMICAL WASTES IN ACCORDANCE WITH YOUR LOCAL WASTE DISPOSAL ORDINANCE.

Maintenance:

All coatings require routine maintenance to ensure proper performance and longevity. Any deficiencies, cracks, voids, or minor damage from such situations can be quickly remediated by adding a small amount of coating to that area and allowing the product to cure in accordance with the installation instructions. The NanoTech Insulator can be kept clean by using soapy water followed by light to medium scrubbing a sponge.

6.0 Product Circulation Guidelines

This is a high-solids, acrylic emulsion formulation. This means that the product must be thoroughly agitated to lower its viscosity from a solid state to a liquid state. If the product is left standing in the packaging, or in the application machine, or any container after agitation for more than 45 minutes, it must be agitated again to prevent its viscosity from increasing back to a solid state from a liquid state.

To prepare the product:

- Agitate the product using a ribbon style paddle and a mixer with high rpm capability, for at least 5 minutes.
- Repeat the mixing process for product that has been left standing for more than 45 minutes.
- Product is thoroughly mixed and ready for application when it takes on a heavy paint-like consistency.

Product that is sealed in new packaging has a shelf-life of 12 months from date of manufacture. Product that has been opened and resealed has an approximate shelf-life of 30 days or less depending on how long opened containers have been exposed to open air. Inspect and remove any cured resin or solids from a used bucket, if any, before using leftover product and follow agitation guidelines.

7.0 Repairs

NanoTech Materials does not provide design services. When replacing defective substrate material, it is recommended to consult an engineering professional. For warranty purposes only, NanoTech Materials must review all associated work, including substrate repairs or modifications, for acceptance under the terms of the materials warranty.

8.0 Adhesion Test

It is extremely important that NanoTech Insulator adhere well to the substrate.

An adhesion test is required prior to application of our NanoTech Insulator. To perform an adhesion test on the existing primer to ensure that the primer is in sound condition on the substrate, utilize the adhesion test in accordance with ASTM D3359 Method A “Standard Test Methods for Rating Adhesion by Tape Test” having a 3A adhesion rating or higher.

Option 1:

Once the existing primer is determined to be well adhered using the adhesion test performed above, our NanoTech Insulator can then be applied at the thickness recommended by a Nanotech Materials representative to ensure proper insulation. An adhesion test of the NanoTech Insulator may also be performed in accordance with ASTMD 4541 “Standard Test Method for Pull-Off Strength of Coatings Using Portable Adhesion Testers”. There are two types of adhesive failure, and a passing test will depend on which type of failure you experience:

1. Adhesive Failure – The insulator coating is attached to the dolly and will completely delaminate from the primer entirely.
   a. Record the pounds per square inch (psi) from the portable adhesion equipment.
   b. An adhesion test is considered a failed test if the test results produce adhesive failure at a rate of less than 20 psi.
2. Cohesive Failure – The insulator coating is still attached to the dolly and also still attached to the substrate. The insulator coating has split within itself.
   a. Record the pounds per square inch (psi) off the portable adhesion equipment.
   b. The result of a cohesive failure is an automatic pass.

Option 2:

Important note: Each recommended complimentary system may have a specific adhesion test method as per each manufacturer’s specification. The adhesion test method outlined below is written specifically for NanoTech Insulator as a stand-alone product or with a primer and no other materials in accordance with ASTM D 903. This standard requires the installer to perform one adhesion test or any time the substrate changes and is performed as follows:

1. A minimum of two samples is required.
2. Clean two areas of at least 12 inches by 12 inches.
3. Clean one area and allow it to dry.
4. Clean a second area, allow it to dry, prime the area, and let it cure per manufacturer’s specification.
5. Coat the primed and unprimed areas with 20 mils of coating in swaths that are 4” wide and 7” long.
6. While the coating is still wet, embed 2”x 12” polyester fabric across a test patch such that there is a 1” border around the embedded section. Leave a 6-inch-long dry section outside of the test patch. There should be a 6”x2” piece of fabric embedded and a 6”x2” piece of fabric exposed.

7. Apply a second coat of product to each test sample to totally encapsulate flashing fabric and let it cure for at least 48 hours at 77F @ 50%RH. If ambient conditions are outside of these parameters, curing times will be extended.
8. Tie a knot in the loose end of the fabric and secure to your calibrated fish scale.
9. Pull the dry end of the flashing fabric at a 90-degree angle with calibrated scale to failure of adhesion and record your results.

There are two types of adhesive failure, and a passing test will depend on which type of failure you experience:

An adhesion test is considered a failed test if the test results produce adhesive failure at a rate of less than 2 lb. per linear inch.

9.0 Substrate Preparation

Prior to applying the NanoTech Insulator:

1. Mask off areas with tape and protective film that are not intended to receive a coating.
2. Surface Cleaning:
   a. Before cleaning a substrate, verify the local water runoff ordinances and restrictions.
   b. Hand-remove any debris or other large foreign objects. Remove heavy deposits of dirt, and other debris using a broom or air blower. Use a stiff broom to agitate dirty surfaces.
3. Carefully power-rinse the substrate with clean water using a minimum 2,000 psi (13,790 kPa) low pressure water cleaning.
   a. Maintain 18" separation between the sprayer tip and the substrate when pressure washing substrate to prevent damage.
   b. Remove grease, oils, or contaminates which may interfere with adhesion using warm water and mild detergent. Treat areas of algae, mildew, or fungus with a 5:1 solution of household water and bleach. Rinse the substrate to ensure removal of all detergents or anything else that could reduce adhesion.
4. Allow surfaces to dry thoroughly before applying the coating.

10.0 Use of Primers

For ferrous metal surfaces, apply a commercial-grade, rust-inhibitive primer from the NanoTech Insulator list of approved compatible ancillary products, and in accordance with the primer manufacturer's recommendations. Then perform a pull test for adhesion compatibility as described above in the Adhesion Test section.

11.0 Coating Application

The overall weather conditions, surface temperature, surface moisture, ambient temperature, relative humidity, and wind velocity affect the curing time of this product.

This product is cured by water evaporation only. The application requires a minimum temperature of 41°F and rising. Do not apply at temperatures greater than 200°F. Do not apply if the dew point is within 5°F degrees of the surface temperature.

Under no condition is the application of this product to be exposed to rain or freezing temperatures for a period of no less than 8 hours.

11.1 Wet Film Thickness

Apply the product in layers at a wet film thickness (WFT) of 55 mils thick which is approximately 1MM. The 55 mils WFT will cure to a total of 40 mils dry. There is an approximate 15-20% shrinkage rate from wet to dry film thickness deposition. Utilizing a notched or wet film thickness gauge for proper thickness is necessary to ensure deposition thickness is consistent.

Ensure that each applied layer is dry before applying subsequent layers. Once the final layer has been applied and left to dry, verify the final thickness has been achieved by using a dry film thickness gauge with current calibration records by the manufacturer.

11.2 Custom Higher Temperature Thermal Efficiency

Application (Thermal Insulative Performance):

1. Apply the first coat of the NanoTech Insulator evenly and allow to dry. Recommended wait time between coats is 45-75 minutes at 77F @50% relative humidity. High humidity and low temperature conditions will lengthen the wait time.
2. A notched or wet mil gauge in accordance with ASTM D4414 "Standard Practice for Measurement of Wet Film Thickness by Notch Gages" which can be found at most paint stores can be used during installation to ensure proper coating thickness.
3. Apply each coat at a wet film thickness (WFT) of 55 mils thick which is approximately 1MM. You can apply up to 120 mils wet in a single

coat, however, this will increase drying times of the product .
4. In hot and/or windy conditions NanoTech Insulator may dry/cure faster than expected.
5. Do not allow product to get wet, dirty, or be disturbed during initial cure.
6. Apply additional coats as needed to achieve desired finish. Adding more products will increase the performance results. When it comes to the NanoTech Insulator Insulator Coat, the thicker the coating, the greater the performance.
7. Be sure to remove the tape prior to full cure. This will ensure a clean line is left on the substrate and prevent pealing of the coating.
8. If tape is not removed before a full cure, we recommend gently running a dull knife along the seam of the tape and pulling carefully to ensure a clean break between the tape and the product.
9. If product starts to lift with the tape, carefully remove the lifted product and reapply the coating to the area for coverage.

11.3 Top Coating

Prior to top coating NanoTech Insulator, check with a NanoTech Materials representative for approved topcoats. Ensure that the NanoTech Insulator is fully cured prior to applying an approved topcoat.

12.0 Additional Product Details

12.1 Qualification for Contractors

The Contractor shall be applicators trained by NanoTech Materials, Inc or a NanoTech Representative be on site for supervision. For questions pertaining to our qualification process, contact a NanoTech Representative.

12.2 Testing and Labeling

The NanoTech Insulator t is produced in NanoTech facilities using a stringent ISO9001:2015 quality control framework. Routine in-house and third-party laboratory testing is performed, and full traceability of all product components is maintained. Any questions or concerns related to the product and or its application should be directed to info@nanotechmaterials.com. Please include the LOT # information from the product label.

12.3 Product Handling and Storage

For safe handling of this product read the SDS and TDS of the NanoTech Insulator and follow these guidelines:

- Avoid contacting and breathing the material.
- Use only in a well-ventilated area.
- As with all chemicals, good industrial hygiene practices should be followed when handling this material.
- Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling.

For storing this product:

- Store in a cool, dry place, and not exposed to the elements.
- Keep container(s) closed when not in use.
- Store locked up.
- Store in a well-ventilated place.
- Keep cool.
- Storage temperature: 41-100°F.
- Keep only in the original container.
- Protect against the elements.

12.4 Important Notes/Considerations

1. Nanotech Materials, Inc. offers a 1-year warranty pertaining to product defects on projects installed by professional applicators.
2. Working with liquid coatings from heights is a dangerous activity. NanoTech Materials, Inc. requires using a certified applicator for installation.
3. The successful application of the NanoTech Insulator is heavily dependent on the current condition of the existing substrate and quality of the application process and installers. To ensure the best results, please consult a qualified coating professional to confirm your substrate is structurally fit for application of the NanoTech Insulator.

NANOTECH MATERIALS



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We pioneer new materials for the world's most critical challenges in energy efficiency and fire protection.

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