



**INDUSTRIAL
NANOTECHINC**
THE GLOBAL LEADER IN NANOSCIENCE SOLUTIONS™



**Nansulate™
Translucent**
Insulation &
Corrosion Protection



NANSULATE
THE ULTIMATE INSULATION & CORROSION SOLUTION

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PRODUCT CHARACTERISTICS

NANSULATE™ liquid applied insulation is a premium industrial grade rust proofing protective insulation coating containing Hydro-NM-Oxide, which is the best insulating material on the planet...by far. Thermal Conductivity: $W/m-K=0.018$ at 25 Degrees Celsius. **NANSULATE™**, when fully cured, contains a high level of Hydro-NM-Oxide along with acrylic resin and performance additives. It has unique and astounding insulation properties which surpass all other forms of insulation previously available. Nansulate has proven resistance to both existing mold growth and new mold growth. Nansulate can also be used for Lead Abatement—as a lead encapsulation coating. 20 year warranty.

Pipes
Attics
Containers

Tanks
Walls
Residential

Trucks
Ships
Commercial

Textile
Automotive
Industrial

Corrosion protection and insulation are now combined into one, solving the costly problem of CUI (corrosion under insulation).

Excellent adhesion to a wide variety of substrates.

User-friendly with no special tools needed and easy to apply.

Effective three-coat system, which can be easily over-coated if desired.

Ability to see the substrate through the material allows for visual inspection of pipes, tank and equipment.

Mold resistance without use of potentially harmful anti-fungal agents

Encapsulate Lead with a smooth, water-based, environmentally friendly coating.

Available Nansulate Translucent products:

Nansulate Translucent PT & GP: Temp range (after cure) -40°C to 125°C (-40°F to 257°F)

Nansulate Translucent High Heat: Temp range (after cure) -40°C to 204°C (-40°F to 400°F)

Application Temperature range: 4°C to 100°C (40°F to 212°F)

PRODUCT DESCRIPTION

Liquid insulation and corrosion protection incorporating Hydro-NM-Oxide, a product of nanotechnology.

PRODUCT INFORMATION

Color:	Translucent
Container Sizes:	1 gallon, 5 gallon and 55 gallon drum
Viscosity, cps:	3500-4000
Density, lb/gal:	8.5
Weight Solids, %	32 (+ or - 2%)
Volume Solids, %	30.0 (+ or - 2%)
Touch Dry:	1-2 Hours
Hard Dry (return to service):	24-48 hours
Full Cure:	30-60 days
Typical thickness range:	76.2—127 microns per coat
Theoretical coverage:	@ 1 mil, Ft ² 1600 @ 3 mils, Ft ² 530



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APPLICATION DATA

Application Method:	Airless spray, Brush, Roll
Equipment Settings:	Adjust air pressure for a consistent film thickness.
Applied Over:	In exterior applications, use over suitable primer
Recommended Reduction::	Reduction is not recommended, however slight reduction may be done if needed for a specific application.
Reducer:	Water
Reduced Viscosity:	As needed for application
Recommended Film Thickness:	Per coat: Wet: 3-5 mils (76.2-127 microns) Dry: 1.5-2.5 mils (38.1-63.5 microns)
Precautions:	Do not apply thicker than recommended film thickness.

SURFACE PREPARATION

Metallic Surfaces:	Remove all loose contamination by wire brushing. Remove all dirt, grease, oil, soluble salts and other contamination by using a suitable cleaner/degreaser and clean water rinse. Remove all loose, flaking rust and/or paint by Hand Tool Clean or Power Tool Clean. Commercial Blast Clean may be done. If this method is selected then the profile shall be 1-1.5 mils in depth and angular in appearance.
Painted Surfaces:	Ensure paint is not flaking or peeling. Remove all loose dirt, oil, grease or other contaminate. Abrade the surface prior to Nansulate application.
Other Surfaces:	Remove all loose contamination by wire brushing. Remove any dirt, oil, grease, etc. using a suitable cleaner/degreaser that does not leave a residue.

SAFETY PRECAUTIONS

Follow all MSDS/label precautions even after container is emptied because it may retain product residues.
Avoid contact with skin and eyes.

STORAGE

Store in cool, dry conditions (between 2—20°C (36—68°F)). Keep away from direct heat source.
When not using the material, always replace the lid on the container.
Do not freeze.

SHELF LIFE

Up to 12 months when stored in sealed containers at temperatures between 2—20°C (36—68°F).

DISCLAIMER The information contained herein is to the best of our knowledge accurate and current and is given in good faith without warranty. Users are deemed to have satisfied themselves independently as to the suitability of our products for their particular purpose. In no event shall Industrial Nanotech, Inc. be liable for consequent or incidental damages.