



Selection & Specification Data

Product Name	Nanolsola Residential
Product No.	0864400606150002
Description	Nanolsola is an Energy Saving Paint that has unique insulating properties, which will reduce heat loss through walls and ceilings. The insulating properties within Nanolsola Paint form a thermally efficient barrier, considerably reducing heat loss. It will help increase room temperature in winter, and keeps it cooler in summer and allows walls to breathe easier.
Features	<p>Reduces heat loss Helps reduce your energy consumption Very LOW VOC levels Reduces condensation problems. Extremely simple to use Easily applied (Roller, Brush, Sprayer) Strong resistance to Fungi & Mold UV Resistance Translucent paint is also available</p>
Base	Water-based Acrylic Insulation Coating
Gloss	Flat
Color	Clear, semi-gloss - White, semi-gloss
Product Attributes	Thermal insulation, Mold & Fungi resistance
Environmental	Eco friendly, Water based No Odor
Material Applied to	Drywall, pre-painted walls, ceilings, wood, plastic, cement, stucco, fiberglass, metal substrates, other surfaces
Coverage (3 coats)	Approx. 15 square meter per gallon
Viscosity	3500 to 4000 (cps)
VOC content	100 g/L (calculated)
Volume Solids	40.0 (+ or - 2%)

Substrates & Surface Protection

Surface must be clean and dry and free of grease, dirt solvents, etc.

Apply directly to the surface.

Each coat should be applied 70 microns in thickness with 8 hours dry time between each coat.

Three coats is the recommended minimum coverage.

Application temperature range: 15°C to 70°C

Remove all loose contamination by wire brushing.

Remove all dirt, grease, oil, soluble salts and other contaminations.

Remove all loose, flaking rust and/or paint by one of the following methods, if unable to sandblast use **St 3**

Power Tool Cleaning. If able to sandblast use **Sa 2.5** Blast Cleaning.

Application

Insulation and mold resistance.

Residential and commercial applications up used for drywall, pre-painted walls, wood, plastic, glass, cement, fiberglass, and any other surfaces requiring insulation and mold resistance.

Not for underwater use - product cannot be in a submerged environment.

Can be used around steam and high humidity environments

Interior or Exterior use

Application Equipment

Nanolsola coatings can be applied with standard paint spray equipment. Equipment size and performance varies widely, so it is our intention to provide the following recommendations for various sizes of equipment which may be used for the coatings, in addition to other important items to ensure proper application.

- 1- Airless or H.V.L.P. sprayer to apply Nanolsola paint
- 2- Roller
- 3- Brush

Mixing by hand or slow speed mixer recommended before use.

Product Data

Item	Metric Value	Test Method
UV-A Exposure	Excellent 2000 hrs	ASTM D-5894
Humidity Cabinet	Excellent 2000 hrs	ASTM D-4585
Permeability	5 perms/inch @ 23 deg C	ASTM 1653-03
Cross Hatch Adhesion	100% 5B	ASTM D-3359
Pull Apart Strength	2000-2100 psi	ASTM D-4541
Thermal Conductivity	(0.075 W/m/K)	Thermal Probe Study
Transmittance	0.00	Calculated
Flame Spread	Class A	ASTM E-84/87
Smoke Developed	Class A	ASTM E-84/87
Cyclic Salt Fog	Excellent 2000 hrs	ASTM B-117
Mold Resistance	Zero or minimal growth	ASTM G21

Mixing & Thinning

Mixing	Care should be taken during mixing prior to application not to cause particle shear of the nanocomposite. Preferred method of mixing is using a mixing paddle at slow speed for approximately 2 minutes.
Thinning	Thinning is normally not needed
Tinting	Nanolsola White Can be tinted with universal paint pigment

Cleanup & Safety

Cleanup	Equipment may be cleaned with soap & water
Safety	Eye protection recommended
Ventilation	Recommended for constricted areas
Caution	This material is not for human consumption
Clothing	Safety clothing & gloves are recommended

Other Coating Specifications

Thickness of 1 coat	70 microns
Thickness of 3 coat	200 microns
Touch dry time for 1 coat	1 hour
Typical hard dry time	72 hours
Dry time between each coat	8 hours

Package, Handling & Storage

Available Sizes	1-gallon & 5-gallon
Shelf Life	2 years after manufacture
Storage Temperatures	10°C to 35°C
Caution	Do not let product freeze
Flash Point	None
Pot life	Coating is one part, so no catalyzation is needed. Pail can be reused if properly sealed.

Nanolsola is a unique nanotechnology-based coating that insulates by reducing direct thermal conduction, NOT only by reflecting away the sun's heat but also makes them extremely effective in indoor as well as outdoor environments and in all climates and all seasons.

Nanolsola Coatings ARE NOT Ceramic paint additives Nor Microsphere coatings.

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