



Selection & Specification Data

Product Name	NANOISOLA Waterproofing
Product No.	0864400606150002
Description	Nanolsola coatings are a grand breaking product by NanoFan that utilizes a nanocomposite with an extremely low thermal conductivity and hydrophobic nature. Nanolsola Waterproofing liquid roof coatings are tough, cold applied giving exceptional durability and lasting peace of mind. This coating provides a lasting barrier to water penetration will not embrittle and are highly resistant to sunlight.
Features	Water resistant, water hydrant and protective against rain, damp, moisture Water-based paint, with No solvent environmentally friendly UV Resistance
Base	Water-based Acrylic Insulation Coating
Gloss	Flat
Color	White, semi-gloss
Product Attributes	Insulation, waterproofing
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. 40 square meter per 5-gallon pail
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

Insulating and waterproofing roofs, bathrooms and building facades.

It has both the properties of insulation and waterproofing at the same time

Thermal resistance from 40° to 210° C

Long lasting, durable for at least 20 years

Water resistant, water hydrant & protective against rain, damp, moisture

UV Resistance

High resistance to different weather conditions

No need to remove the previous existing surface

Easy to use (brush, roller, spray)

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 3 minutes.
Thinning	Thinning is normally not needed
Tinting	Nanolsola Waterproofing 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	200 microns
Thickness of 3 coat	600 microns
Touch dry time for 1 coat	1 hour
Typical hard dry time	48 hours
Dry time between each coat	3 hours

Package, Handling & Storage

Available Sizes	5-gallon pail
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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