TECHNICAL
DATA SHEET

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GoNano NuRoof Fortify™

Nano-enhanced, clear, breathable treatment for asphalt shingles

DESCRIPTION

GoNano NuRoof Fortify™ is a nano-enhanced, professional-grade treatment designed to help extend and maintain the performance of newer asphalt shingle roofs. Engineered using advanced nanotechnology, Fortify creates a breathable, clear, hydrophobic barrier that improves durability while preserving the roof's original appearance.

Fortify is designed to protect roofing systems from moisture exposure, freeze–thaw cycling, UV radiation, and environmental stress before damage begins. By reinforcing the surface of the shingle, Fortify helps slow the aging process, improve resistance to impact and wind forces, and retain granules critical to long-term performance.

Once applied, Fortify's nano-scale components bond at the surface level, forming a protective environment that repels water while allowing the roof to breathe. This protective layer supports long-term material stability and contributes to extended roof service life, helping maintain performance under demanding weather conditions.

Aging Reduction
- Up to 68%

Service Life
+ 15 years

SHINGLE AGING RESISTANCE
UNTREATED VS TREATED TEST

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TECHNOLOGY AND ADVANTAGES

- **Composition –** Engineered with a high-performance, nano-enhanced formulation designed to improve bonding, durability, and long-term resistance.
- **Exceptional waterproofing -** Interacts at the surface level to reinforce the shingle structure and create long-lasting hydrophobic protection.
- **100% breathable -** Non-film forming. Allows moisture to escape without adverse effects to the sealer. Does not trap moisture.
- **Improve adhesion between bitumen and aggregate -** The chemical reaction increases the bonding between the substrate and aggregate by reacting with the aggregate and the bitumen.
- **Improve oxidization resistance -** Reduction of the creation of polar bonding that affect aging.
- **Resists moisture intrusion -** Helps slow aging caused by oxidation and environmental exposure.
- **Resist organic growth -** Mold, mildew lichen and efflorescence.
- **Resists freeze-thaw & thermal cycling damage -** Resists cracking by preventing the ingress of water
- **Provides ease of maintenance**
- **Improves durability -** Prevents capillary uptake of water, UV degradation and oxidation process.
- **Natural flat finish -** Does not change surface appearance, UV stable, will not break down with light exposure.
- **Can be applied to all shingle roofs -**Designed for use on asphalt shingle roofing systems that are new or exhibit minimal wear.
- **Solvent-based -** Excellent for cold-weather environments.
- **Incomparable 15 year warranty -** Designed to resist delamination, flaking, chipping, and UV-related degradation under normal service conditions.

TYPICAL PROPERTIES

Appearance	Clear	LOW VOC	250g/L maximum
Odor	Mild Petroleum/Solvent	Flash Point	>77°C
Packaging	20L (Approximately 5 Gallons) Drum	Relative Density	0.78 -0.81 g/cm

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SURFACE PREPARATION

1

Clean
The asphalt substrate must be structurally sound and clean of oil, grease, dirt, wax, curing compounds, efflorescence, paints, previous sealers, adhesives and other contaminants that might interfere with the penetration of the system.

Soft wash or mechanically clean as necessary to achieve the desired surface condition. Allow for proper dry time before application.

May be applied to slightly damp surfaces, although maximum penetration is achieved on dry substrates. Do not apply if standing water is visible.

2

Installation temperature
Surface and air temperatures must be at least 33°F during application. Surface and air temperatures should not exceed 95°F. Do not apply when rain is expected within 12 hours following application. Do not apply during inclement weather or when inclement weather is expected within 12 hours

3

Reparations
Any necessary repairs should be completed separately and tested for compatibility prior to application.

4

Protection
Protect people, property, vehicles, window glass, roofing materials, plastic products, shrubbery, landscaping and all surfaces not set for treatment from overspray.

SURFACE PREPARATION

- Proper application is the responsibility of the installer.
- This product is not intended to prevent water intrusion caused by structural defects, cracked substrates, or defective flashing, caulking, or waterproofing systems.
- Clean spills promptly to avoid unintended surface effects.
- Exercise caution around specially coated glass. Always test a small, inconspicuous area prior to application to ensure compatibility. Plastic windows may become opaque if exposed to this product.
- Make sure the most current versions of technical data sheets are being used.Always reference the most current version of the applicable Technical Data Sheets prior to application.
- Coverage 1 coat: approximately 50–70 sq ft per liter.

Variations in substrate texture and porosity will affect coverage and overall performance.

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APPLICATION

1. **Do a Test**
   Always test a small area before application to ensure desired performance, aesthetics, coverage rates and to verify application technique. Let test area dry thoroughly, 5-7 days, before inspection.

2. **Stir**
   Stir material thoroughly before and during application. Do not dilute or alter material for purposes other than specified.

3. **How to apply**
   Apply with a roller, brush or low-pressure non-atomizing sprayer. Apply evenly to achieve uniform coverage and roll or broom out any puddles until the sealer penetrates the substrate. If it starts to rain, stop treatment and protect treated areas.

4. **Dry Time**
   Typical drying time is 4-6 hours at 25°C and 50% relative humidity. Cooler temperatures or higher relative humidity can extend the drying time.

   Water repellency will continue to develop within 7 days of application.

5. **Clean Up**
   Clean equipment, tools and surfaces with xylene. Unused or old material may be disposed of in a waste disposal site in accordance with your laws.

6. **Precautions/Safety**
   Avoid contact with skin, eyes and clothing, Do not ingest. Use appropriate safety equipment during application and handling.

LIMITED WARRANTY

In order for this Limited Warranty to be effective, and subject to the applicable terms, conditions, exclusions, and claim procedures, coverage may apply if a manufacturing defect results in one of the following conditions during the applicable warranty period:

- Thirty percent (30%) or more of the treated surface or shingles peel, curl, or wave; or
- A water leak penetrates through the treated shingles as a result of failure of the GoNano treatment.

This Limited Warranty (“Warranty”) applies to manufacturing defects of the GoNano product, subject to the terms, conditions, exclusions, and requirements outlined in the applicable warranty documentation. When properly stored, installed, and applied by an authorized GoNano applicator in accordance with product guidelines, GoNano NuRoof products are eligible for coverage under the applicable Limited Warranty term.
This Warranty is intended to support long-term material performance and durability and does not serve as insurance against weather events or pre-existing structural conditions.
Coverage may apply during the applicable warranty period if one of the following conditions is determined to be the result of a product defect:

- Thirty percent (30%) or more of the treated surface exhibits peeling, curling, or waviness; or
- A water leak penetrates through the treated shingles as a result of failure of the GoNano treatment; or
- The building owner’s property insurer requires replacement of the treated roofing system due to failure of the GoNano treatment.

For complete details regarding warranty coverage, terms, and procedures, please refer to the official warranty section available on the GoNano website.

LIMITED WARRANTY

FOR MORE INFORMATION ON THE WARRANTY, PLEASE REFER TO THE 5, 10 OR 15 YEAR LIMITED WARRANTY DOCUMENT OR CONTACT: **INFO@GONANO.CA**

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ROOFING

	Best	Competitor
Product Name	gonano NuRoof Fortify™	Soybean Oil
Age of material	**0-5 y/old**	**Any age**
Years of added life	15 years life added	Up to 3 years of life added
Breathability	✓ ✓ ✓	✓ ✓ ✓
Rejuvenation	✓ ✓ ✓	✓ ✓ ✗
Weather resistance*	✓ ✓ ✓	✗ ✗ ✗
Hail Impact Resistance	✓ ✓ ✓	✗ ✗ ✗
UV resistance	✓ ✓ ✓	✗ ✗ ✗
Reduce Granule loss	✓ ✓ ✓	✗ ✗ ✗
Wind resistance	✓ ✓ ✓	✗ ✗ ✗
Heat	✓ ✓ ✓	✗ ✗ ✗
Freeze-thaw	✓ ✓ ✓	✗ ✗ ✗
Growth & Staining	✓ ✓ ✓	✗ ✗ ✗