THE NEXANANO DIFFERENCE

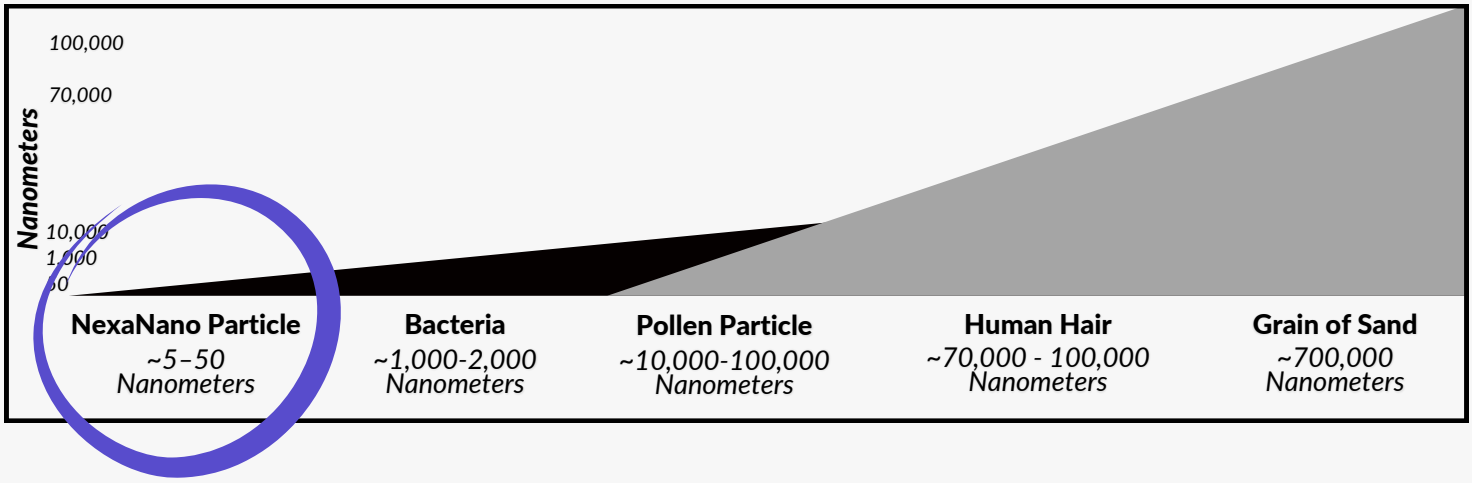
NexaNano is a **penetrating nano-sealant** that bonds beneath the surface creating lasting surface protection.

Our products:

- Contains no harsh chemicals or solvents
- Are breathable and hydrophobic
- Do not discolor or trap moisture
- Are U.S.-made and eco-friendly
- Protects roofs, concrete, stone, wood, and more

THE SCIENCE BEHIND STRONGER LONGER-LASTING PROTECTION

NexaNano works because it's unbelievably small — thousands of times smaller than a human hair! These ultra-fine particles penetrate deeper into your shingles or concrete, sealing microscopic gaps that traditional coatings can't reach.



The smaller the particle, **the deeper and stronger the protection.** NexaNano forms an invisible shield at the microscopic level, without changing how your shingles or surfaces look.

NEXANANO
TESTING AND PERFORMANCE

Independent and standardized testing shows NexaNano is more than a surface treatment, **it is a performance-focused protective layer engineered to support long-term roof durability.**

For dealers, this means you can confidently offer homeowners an advanced protection solution designed to help defend against UV degradation, moisture intrusion, and organic regrowth, without altering the appearance of the existing roof.

TEST TYPE	TEST CLARIFICATION	NON COATED SHINGLE	NEXANANO COATED SHINGLE
UL2218	Impact Resistance	Class 1	**Class 1-2**
ASTM D3161	Winds	Pass	**Pass**
ASTM D7158	Uplift Pressure	Pass	**Pass**
ASTM E108	Fire Retardant	Pass	**Pass**
ASTM D4329	UV Resistance	Pass	**Exceed**
ASTM D3462	Shingle Degradation	Average	**Above Average**
ASTM E96	Water Vapor Transmission	Pass	**Exceed**
Moss and Algae Regrowth	Amount of Regrowth	Class 3	**Class 1-2**

See next page for testing breakdown.

TESTING BREAKDOWN

NexaNano gives your roof 32% added stability when storms roll through.

ASTM D3161 — Wind Resistance: PASS

Performance Insight: Evaluates how well shingles withstand sustained wind exposure. NexaNano-coated shingles maintained passing wind-resistance performance and demonstrated improved durability characteristics under controlled testing.

NexaNano gives adds 19% measurable support against high-wind lift.

ASTM D7158 — Uplift Pressure Resistance: PASS

Performance Insight: Measures resistance to high wind uplift forces. NexaNano-coated shingles showed improved uplift resistance compared to untreated samples in controlled testing.

NexaNano improves roof's existing fire protection by 27%.

ASTM E108 — Fire Resistance: PASS

Performance Insight: Evaluates roof coverings for flame spread and fire exposure. NexaNano-coated shingles preserved required fire classification under standardized testing.

NexaNano adds 8 years of UV exposure protection to your roof.

ASTM D4329 — UV Resistance: EXCEED

Performance Insight: Accelerated weathering simulates long-term UV exposure. NexaNano-coated shingles demonstrated enhanced resistance to UV degradation versus untreated samples.

NexaNano provides 10-35% stronger, more resilient shingles.

ASTM D3462 — Shingle Durability: ABOVE AVERAGE

Performance Insight: Evaluates overall physical performance of asphalt shingles. NexaNano-coated samples showed above-average durability characteristics in testing.

NexaNano increases shingle permeability from .3-.8 on shingles > 1.0

ASTM E96 — Water Vapor Transmission: EXCEED

Performance Insight: Measures water vapor permeability through roofing materials. NexaNano-coated shingles maintained favorable permeability within acceptable performance ranges.

NexaNano helps keep black streaks and moss from coming back quickly.

Moss & Algae Regrowth Testing: CLASS 1-2

Performance Insight: Organic growth testing evaluates the rate of moss and algae development. NexaNano-coated shingles improved regrowth classification compared to untreated samples.

Testing results are based on controlled laboratory conditions. Field performance may vary based on roof condition, environment, and installation quality.