



RESIDENTIAL

SALES

PRESENTATION



1

Most coating = Snake oil (bandaid)

2

They think they have a warranty
(they are protected) and GoNano will
remove their warranty

3

They think their roof will last for 20+
years (lifetime coverage)

4

Roof will be replaced under
insurance or low cost

UNEXPECTED =
INSURANCE RISING

GONANO
PROTECTION =
THE INSURANCE CLAIM PREVENTER
CLAIM DEFENDER

ADD **10** **TO** **15** **YEARS** **ADDITIONAL**
LIFESPAN **TO YOUR**
ROOF



GONANO PARTICLES

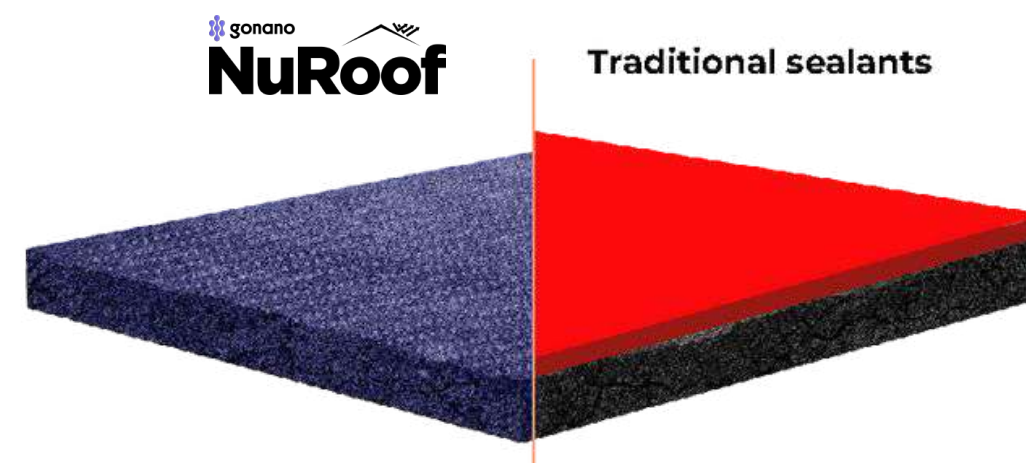
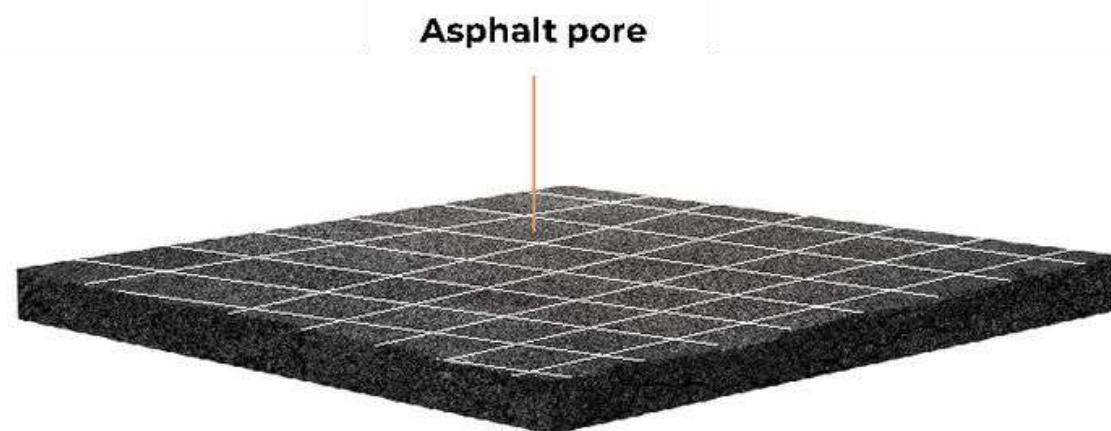
GoNano VS Traditional Sealants



Silicone



Acrylic



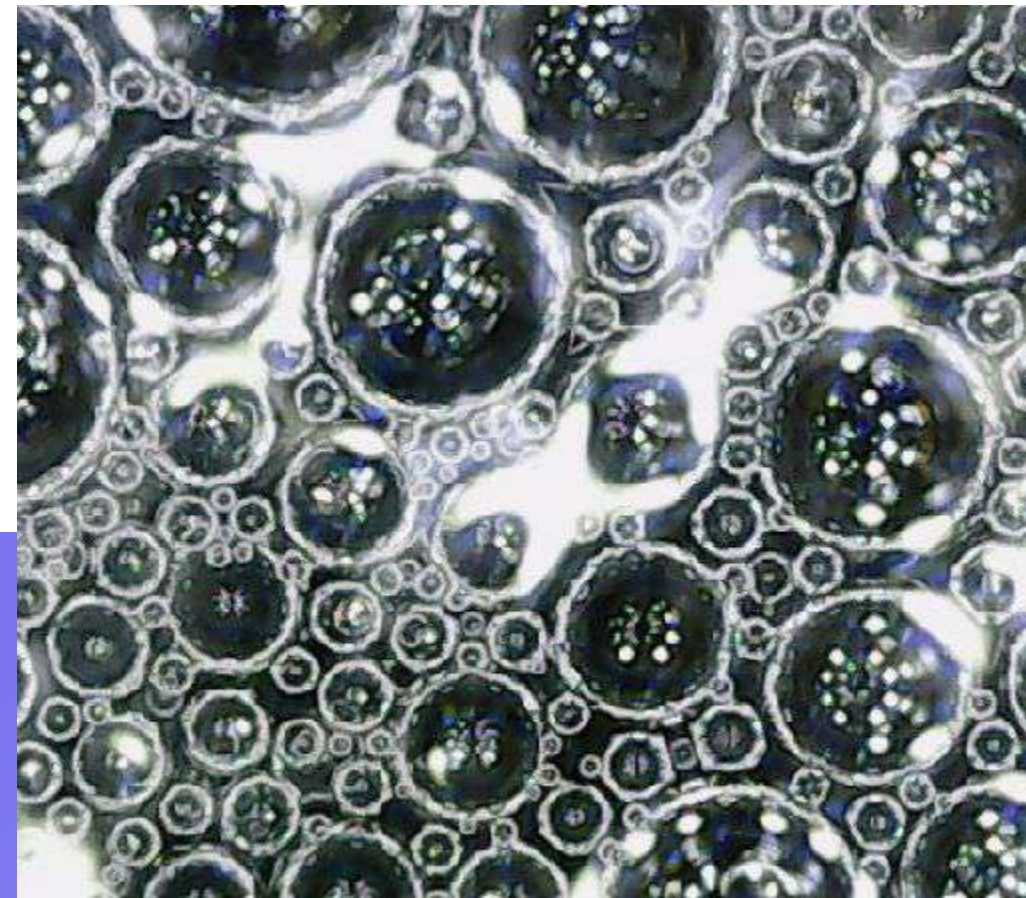
Permanent structure modification

BEFORE



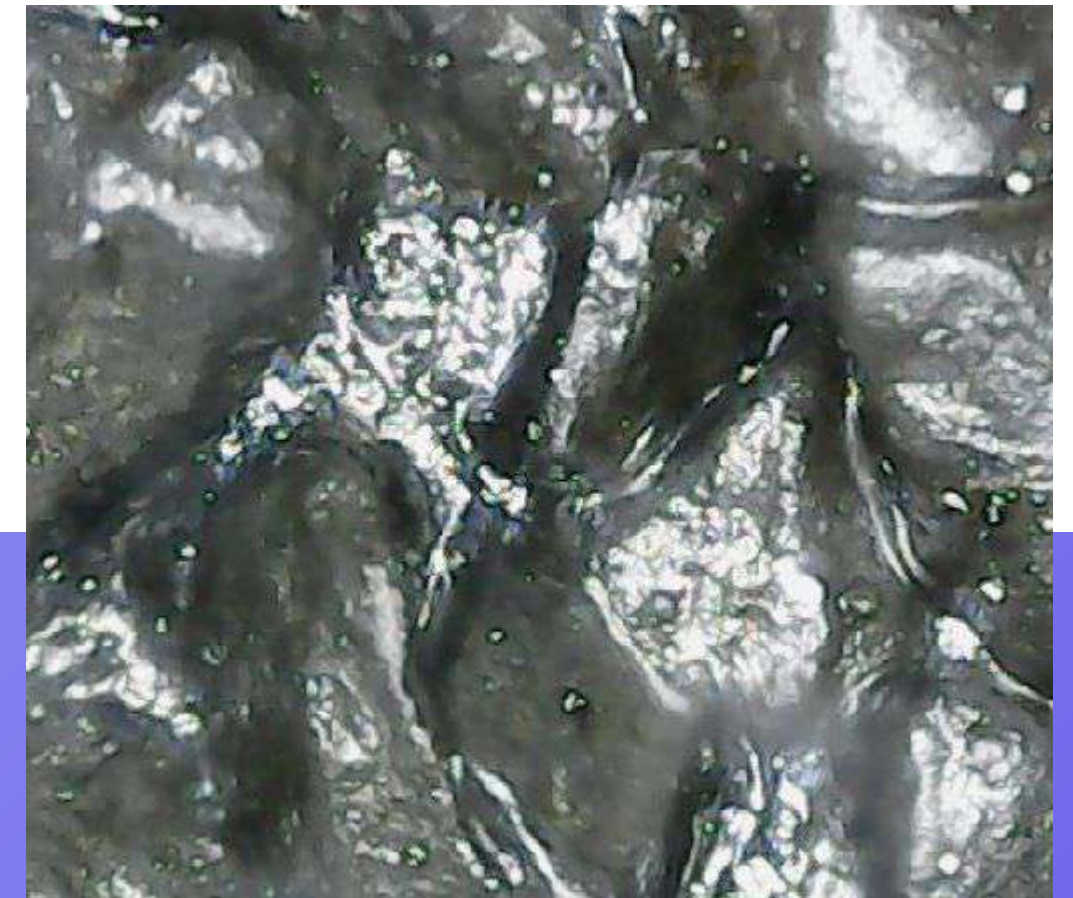
Regular
Shingle

DURING



A modification
reaction takes place
everywhere in the shingle

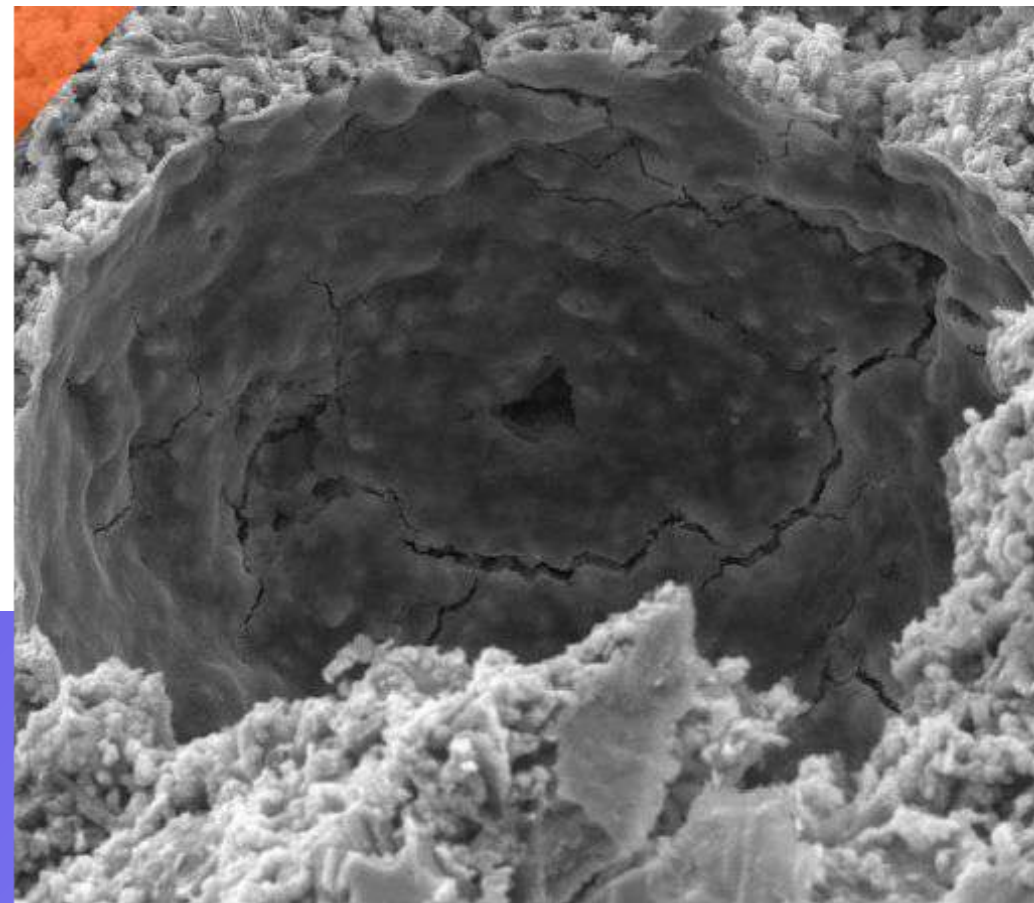
AFTER



GoNano
modified
shingle

Before and after

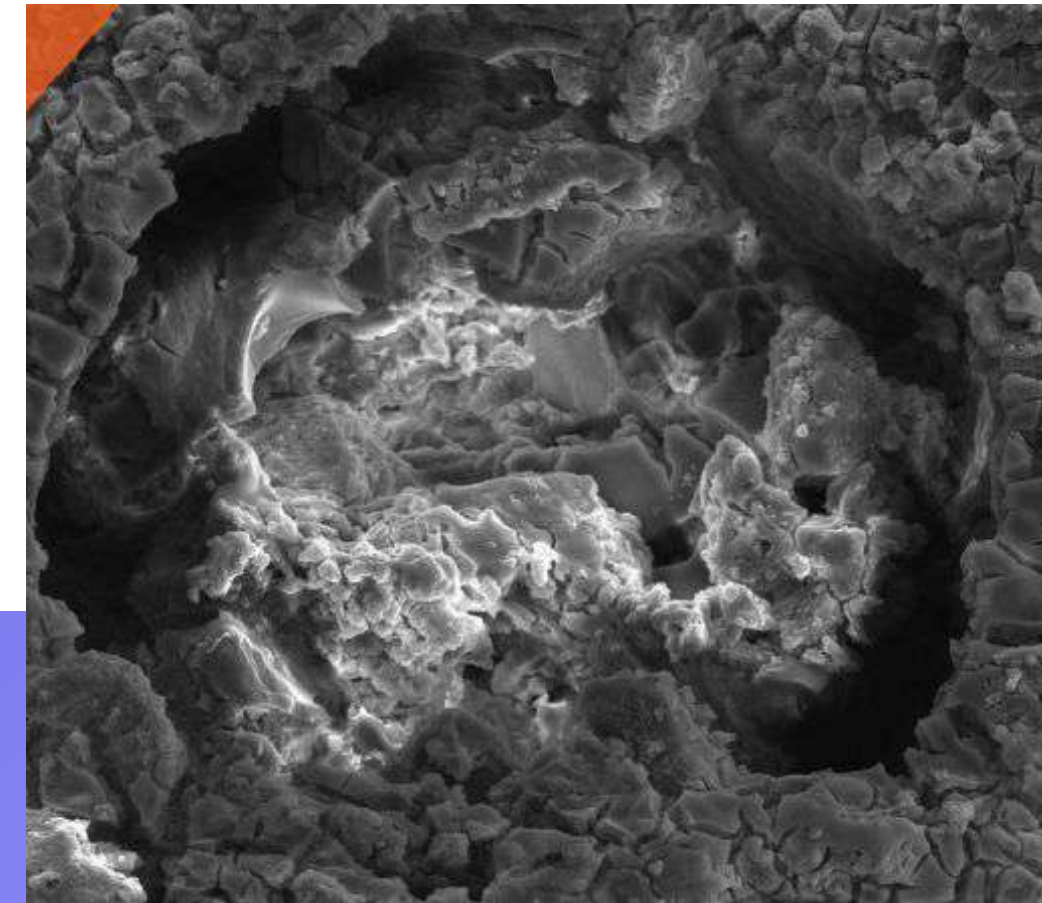
BEFORE MODIFICATION



REGULAR SHINGLE

- Asphalt naturally whitens quickly
- Micro-cracks
- Porous pattern

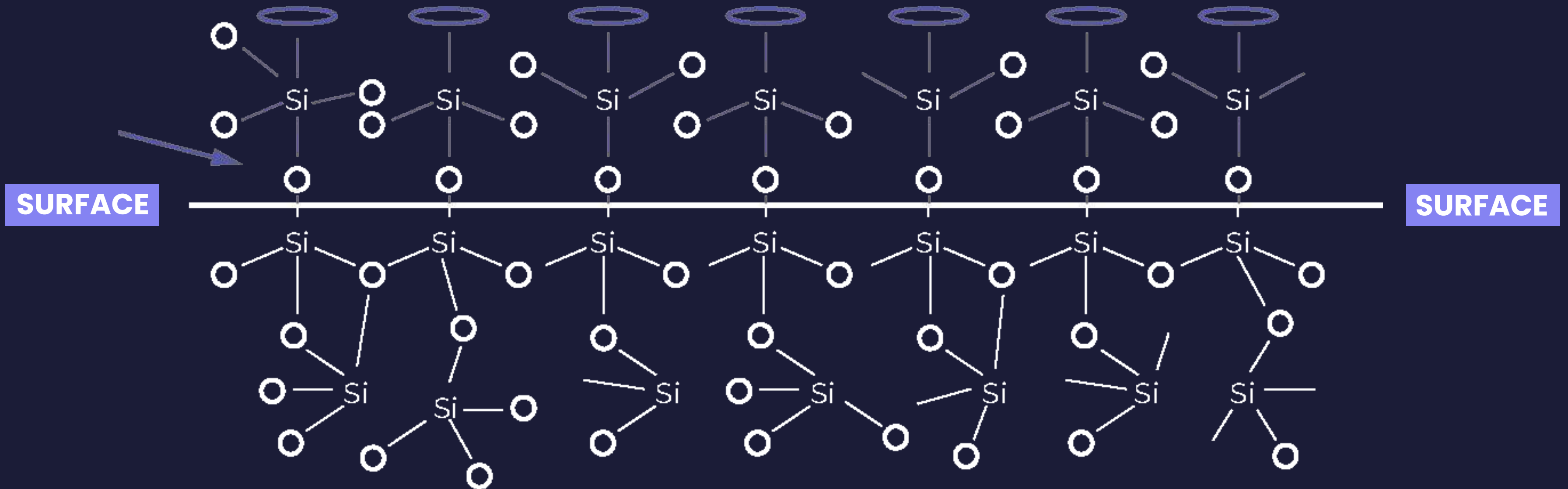
AFTER GONANO



MODIFIED SHINGLE

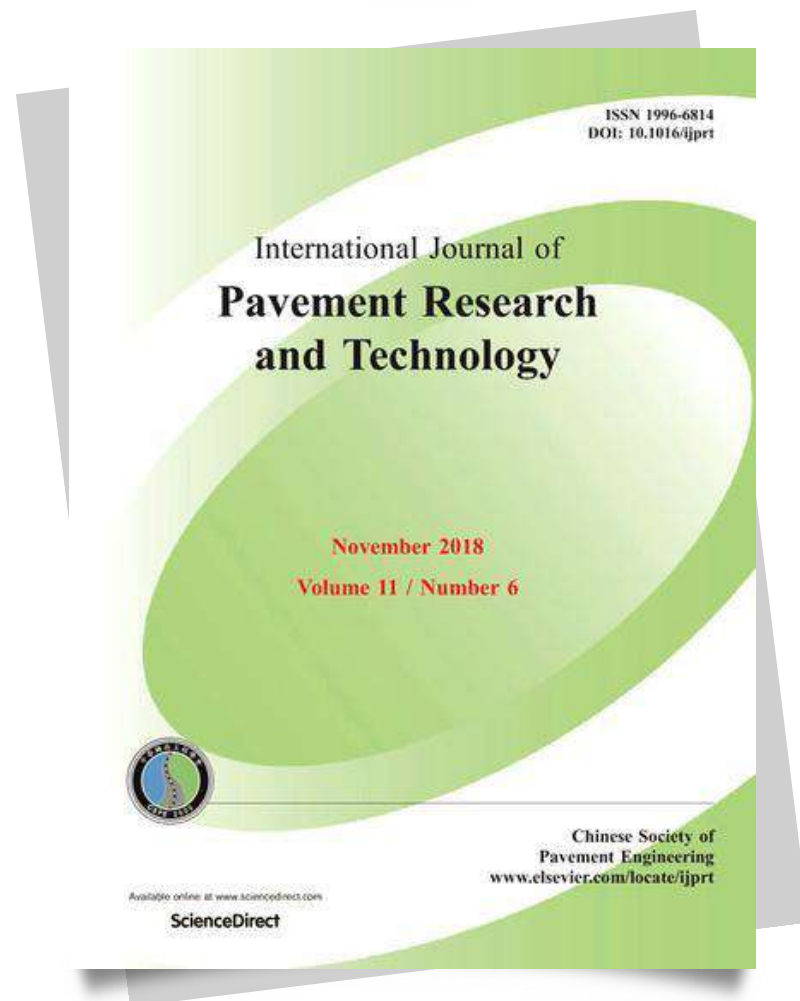
- ❖ Color
- ❖ Density
- ❖ Tissue pattern

Chemical links on the surface



Chemical links in the shingle

Science is settled



“(...) that the antiaging property and rutting and fatigue cracking performance of nanosilica modified asphalt binders are enhanced (...)”

David Wingard, Ph.D., M.ASCE Research Assistant Professor, Dept. of Civil Engineering, Clemson Univ., Clemson, SC,

“(...) has a positive influence on different properties of the asphalt binder and mixture and can be used to construct durable pavements, thereby reduce the life-cycle cost of the pavement”

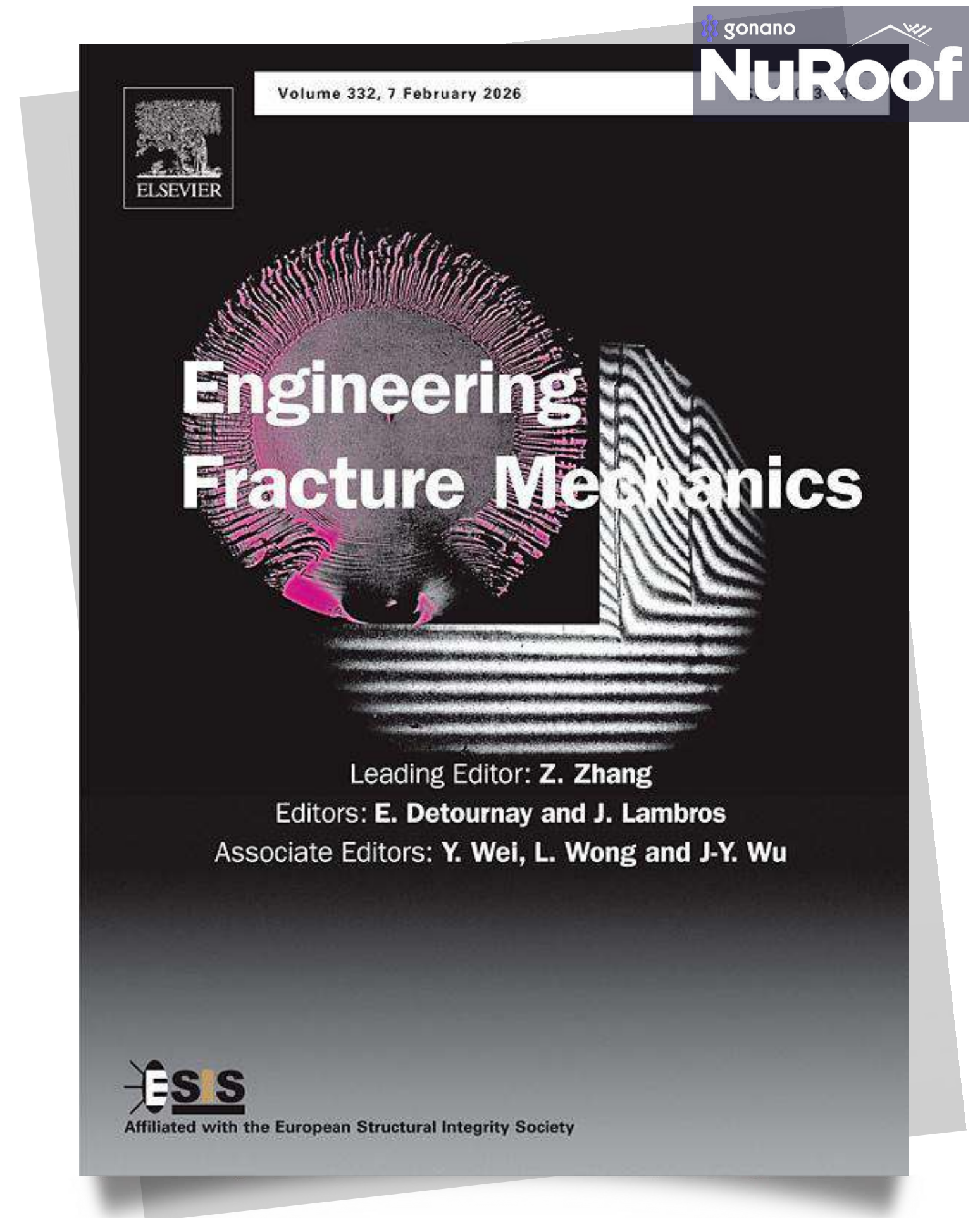
Mahmound Enieba, Aboelkasim Diabb, Department of Civil Engineering, Assiut University, 71516, Egypt

GONANO SCIENCE

Science is settled

“(...) the nanomaterials also gave good indications regarding and enhanced aging resistance.”

Joao Crucho CERIS, Instituto Superior Técnico,
Universidade de Lisboa, Av, Rovisco Pais,
1049-001 Lisboa, Portugal



GONANO SCIENTIFIC STUDY

Independent scientific study

National Center in Environmental Technology and Electrochemistry

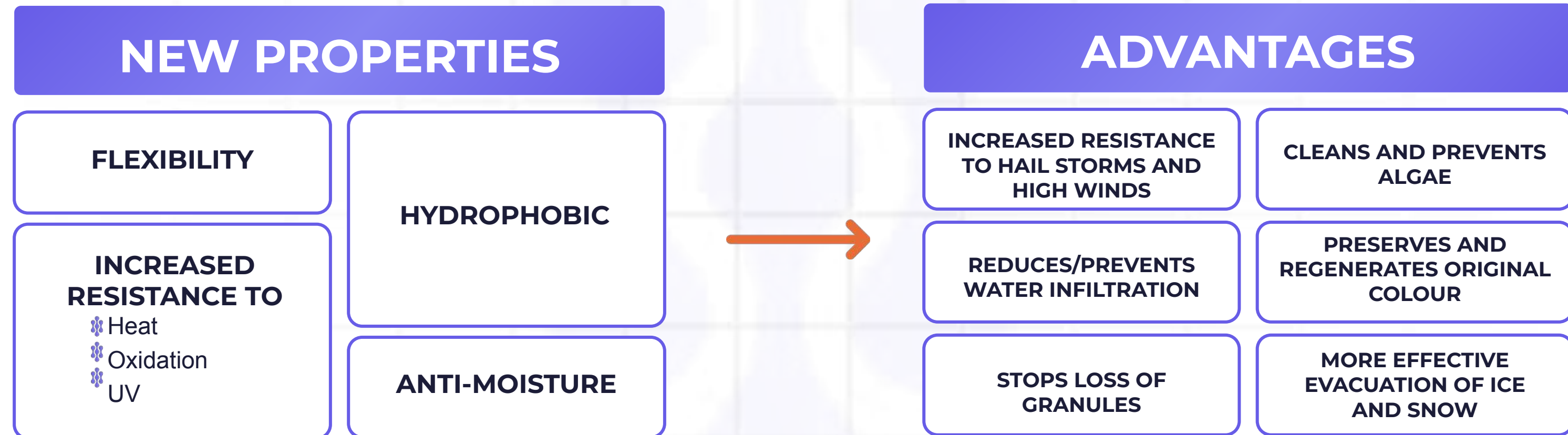
"Asphalt shingle samples treated with the technology commercialized by GoNano demonstrated several improvements over untreated samples, including a marked improvement in anti-aging properties."

Antonio Avalos Ramirez – Ph.D., Ing. Environmental Technology Researcher

"Study showed that molecular aging processes are slowed by minimum 68% and up to 100%, depending on the age and state of shingles."



Technological Impacts



UL Standards Impact Resistance Results

(UL 2218)

Class 2 impacts on
Class 1 shingles
treated once



Conclusions of the testing:

Project No. 4790134408 File TBD Page 5 of 12
LABORATORY DATA PACKAGE 2021/12/14

Fire Test Sample Summary

Test code	Class	Sample Type	Pass/Fail	Sample Description
12092101	2	Asphalt Shingles	Pass	Shingles, 1 Coat
12092102	<u>3</u>	Asphalt Shingles	Pass	<u>Shingles, 1 Coat</u>
12092103	4	Asphalt Shingles	Failed	Shingles, 1 Coat
12092104	2	Asphalt Shingles	Pass	Shingles, 2 Coats
12092105	3	Asphalt Shingles	Pass	Shingles, 2 Coats
12092106	<u>4</u>	Asphalt Shingles	Pass	<u>Shingles, 2 Coats</u>

Class 1 Class 4 Shingle Shingle

VS



CLASS

1. No impact resistance
2. High loss of granules
3. Lifespan: 12 to 15 years
4. Cost: \$5-6 a S/F



CLASS 4

- ⌘ Highest impact resistance
- ⌘ Low loss of granules
- ⌘ Lifespan: 22-25 years
- ⌘ Cost: \$9-10 a S/F

IMPACT RESISTANCE TESTING

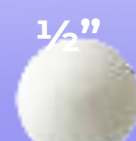
Hail size (in.)

1 ¼"

1

1 ¾"

2"



Class

1

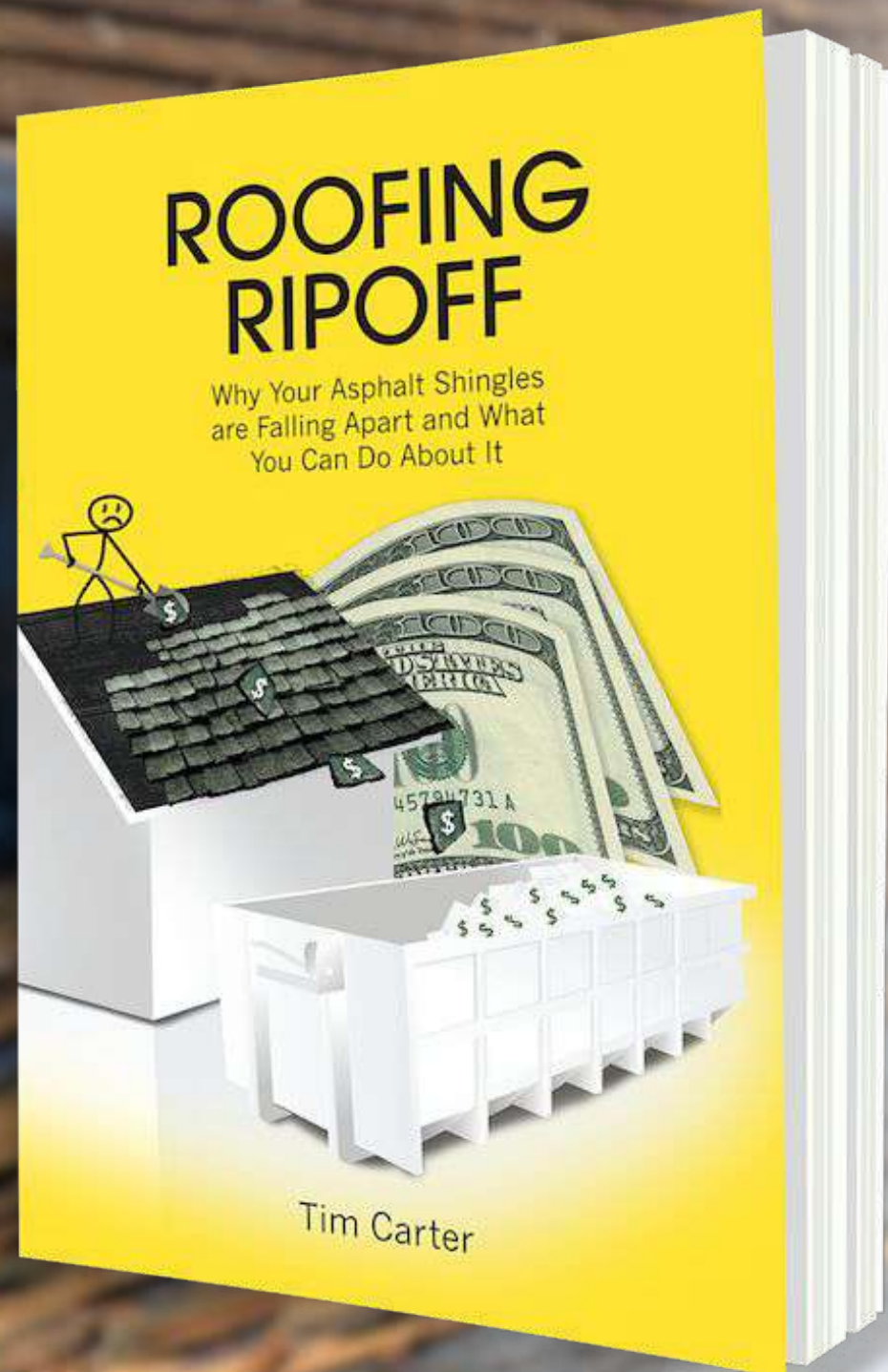
2

3

4

ROOFING RIP OFF

A Roofer Investigates the Issue



"He decided to discover why his 30-year-warranty shingle roof started to crumbled after just 10 years. What he discovered is going to make your blood boil"

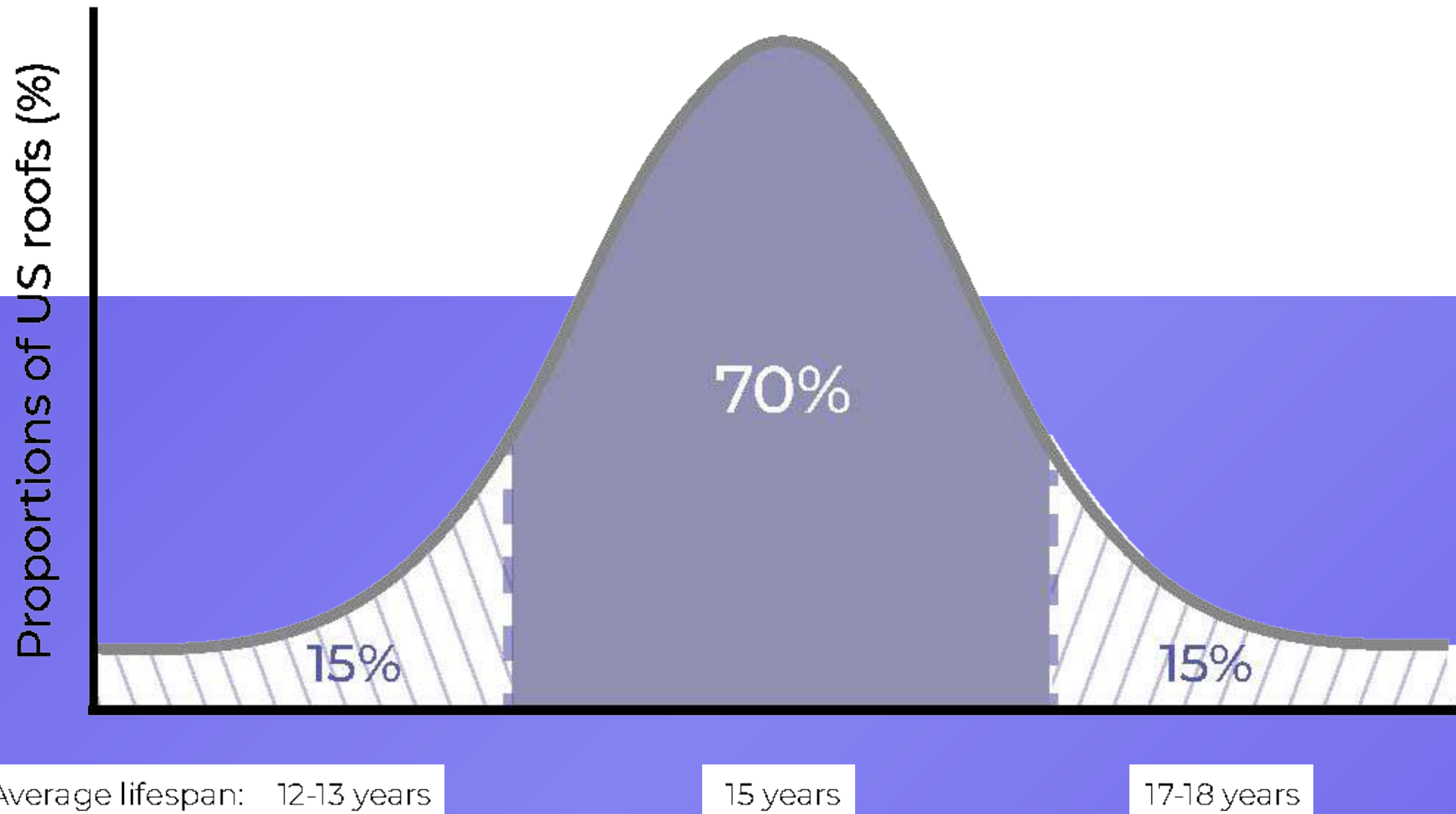
Tim Carter





Give your shingles
additional 15 years
of life.

30 years warranty shingles' average lifespan





GAF Roofing System Limited Warranty



Congratulations! Thank you for purchasing asphaltic shingles and accessories (the "GAF Roofing System") from GAF, North America's largest roofing manufacturer — your best choice. While many factors can affect how long your GAF Roofing System will last, this GAF Roofing System Limited Warranty covers your asphaltic shingles and accessories, including GAF Ridge Cap Shingles, GAF Starter Strip Shingles, GAF Leak Barrier Products, GAF Roof Deck Protection Products, and GAF Cobis® Attic Ventilation Products (the "GAF Products"), in the unlikely event that they contain a manufacturing defect. It provides great coverage that is "non-prorated" during the crucial up-front period of your ownership (the "Smart Choice® Protection Period") with continued coverage for extended periods of time afterwards (note: this limited warranty does not cover low-slope membranes or MasterBlok® Ventilation Products). Please go to gaf.com for a copy of the limited warranties covering these products.

Eligibility Requirements for This Limited Warranty

In order to qualify for this limited warranty, you must meet the following eligibility requirements:

1. **Install Required Products:** You must install GAF Asphaltic Roofing Shingles which carry a Lifetime[†] limited warranty term and at least three (3) qualifying GAF Accessory Products (GAF Roof Deck Protection, GAF Starter Strip Shingles, GAF Ridge Cap Shingles, GAF Leak Barrier, and GAF Cobis® Attic Ventilation Products). In order to qualify for WindProven™ Limited Wind Warranty coverage, you must install GAF LayerLock™-labeled Asphaltic Roofing Shingles and at least four (4) qualifying GAF Accessory Products, including GAF Ridge Cap Shingles, GAF Starter Strip Shingles, and a GAF Roof Deck Protection Product, plus your choice of either a GAF Leak Barrier Product or GAF Attic Ventilation Product. Visit gaf.com/LIS for a complete list of qualifying GAF Shingles and Accessory Products.

2. **Documentation:** You must retain proof of purchase which shows the date the GAF Asphaltic Roofing Shingles and qualifying GAF Accessory Products were installed.

If you do not qualify for this limited warranty, your GAF Asphaltic shingles and accessories are covered by the GAF Shingle & Accessory Limited Warranty in effect at the time of installation. Please go to gaf.com for a copy of that limited warranty.

How Long Your Warranty Lasts

GAF Shingles	Manufacturing Defect Coverage		Wind Warranty Coverage		Algae Warranty Coverage	
	Limited Warranty Term	Smart Choice® Protection Period**	Limited Warranty Term	Wind Speed Coverage (mph / km/h)	Limited Warranty Term	Smart Choice® Protection Period**
LayerLock™-labeled Shingles	Lifetime [†]	10 Years	15 Years	WindProven™ Limited Wind Warranty***: No maximum wind speed For all other installations: With Special Installation****: 130/200 Without Special Installation****: 110/175	StainGuard Plus™: 25 Years StainGuard®: 10 Years	StainGuard Plus™: 10 Years StainGuard®: 1 Year

" It provides great coverage that is "non-prorated" during the crucial up-front period of your ownership (the "Smart Choice® Protection Period") "

GAF Shingles

Manufacturing Defect Coverage

Limited Warranty Term

Smart Choice® Protection Period**

LayerLock™-labeled Shingles

Lifetime[†]

10 Years

All Other GAF Lifetime[†]
Roofing Shingles

Lifetime[†]

10 Years

Manufacturing Defects: What Is Covered/Sole and Exclusive Remedy

GAF Warranty Company, LLC, a subsidiary of GAF, warrants that your GAF Roofing Shingles will remain free from manufacturing defects that adversely affect their performance during the applicable Smart Choice® (1) During the Smart Choice® Protection Period: GAF will pay you the full reasonable cost of labor† Products will remain free from manufacturing defects that adversely affect their performance during the applicable warranty term. **Note:** Wind warranty and algae warranty are covered separately below.

(1) During the Smart Choice® Protection Period: GAF will pay you the full reasonable cost of labor† to repair or re-cover any defective GAF Products (excluding non-GAF accessories, metalwork, or flashing) and will provide replacement GAF Products or the reasonable cost of obtaining replacement GAF Products, at GAF's option. GAF will not pay to tear off your GAF Products, or to dispose of them.

(2) After the Smart Choice® Protection Period: Labor will no longer be covered. GAF's contribution to you will be based on either providing you with replacement GAF Products, or, at GAF's choice, reimbursing you for the reasonable cost of replacement GAF Products. The amount of replacement GAF Products or reimbursement provided to you will be reduced to reflect the use you have received from your GAF Products. The amount of use will be calculated by dividing the number of months which have elapsed since installation to the date of claim by the number of months in the warranty term. For a Lifetime[†] warranty, the number of months in the warranty term is deemed to be 600 for years 11–40 of the warranty term. For years 41 and beyond of a Lifetime[†] warranty, GAF's contribution is 20%. For example, if you make a claim for Lifetime[†] Shingles installed on a single-family home after your shingles have been installed for 25 years (300 months), GAF's contribution will be reduced by 300/600 or 50%.

	 	COMPETITORS' PRODUCT
Warranty	5 - 15 Years	5 Years
Breathable	✓	✓
Rejuvenation	✓	✓
Wind Resistance	✓	✗
Impact Resistance	✓	✗
Granular Adhesion	✓	✗
Water Protection	✓	✗
UV Protection	✓	✗
Algae Protection	✓	✗
Anti-Moisture Seal	✓	✗
Oxidation Protection	✓	✗
Heat Protection	✓	✗
Freeze-Thaw Protection For Roofs	✓	✗
	0 - 20 Years	12 - 20 Years
Active Ingredients	High Concentrations Nanoparticles & Bio-Oil	Only Bio-Oil & Water

Environment and human health



LES PRODUITS GO NANO INC.

Material Safety Data Sheet

MSDS No:1003

Version: 1.3

Page: 5/6

Date: 2020/04/16

6965 GONANO WATER PROOF AGENT

12. ECOLOGICAL INFORMATION**12.1 Environmental effects**

Acute effects: No harm to aquatic organisms.

Chronic effects: No harm to aquatic organisms.

12.2 Biodegradation: Quickly biodegradable.**12.3 Bioaccumulation : No bioaccumulation potential.**

GoNano's technology has been categorized in accordance with the Occupational Safety and Health Administration standards (OHSA) as being:

"Quickly biodegradable"

"No bioaccumulation potential"

"No harm for aquatic organisms"

GoNano is completely safe for the environment and for human health.

Home insurers cut natural disasters from policies as climate risks grow

Some of the largest U.S. insurance companies say extreme weather has led them to end certain coverages, exclude natural disaster protections and raise premiums.



By Jacob Bogage

<https://www.washingtonpost.com/business/2023/09/03/natural-disaster-climate-insurance/>

gonano
NuRoof
Revive™

Extreme Weather Protection

Completely Refurbish Older Shingles

Make Shingles Better Than New

Saves Money - Environment Friendly

Peace of Mind - Great Warranty
No Ugly Staining - Prevents Algae
Superior Protection - Impact Resistant

5 Gallons

Product Details
CONTENT
5 Gallons

MADE FOR
Asphalt Products

ACTIVE INGREDIENTS
Nano-Particles & Natural Products

Coverage
Approx. 1000-1200 square feet per container (5 Gallons)

Use in a well-ventilated area. Keep out of reach of children. Avoid contact with eyes and skin. In case of contact, rinse thoroughly with water.

Restricted Use: For professional use only. Not for retail sale or public distribution. Intended exclusively for use by trained contractors. This product is not classified as a consumer architectural coating under SDP/2009-264.

GoNano LLC.
Customer Support:
1-833-216-GONANO
Email: info@gonano.com
Website: www.gonano.com
Address: 1209 Orange Street,
Wilmington, Delaware,
19801, USA

GoNano LLC is not responsible for any damage resulting from misuse of this product. Please follow application instructions carefully.

**THANK
YOU**

gonano
NuRoof
Fortify™

Extreme Weather Protection

Boosts Newer Shingle Performance

Never Tear Off Your Roof Again

Saves Money - Environment Friendly

Peace of Mind - Great Warranty
No Ugly Staining - Prevents Algae
Superior Protection - Impact Resistant

5 Gallons

Key Features

- FORTIFY**
Significantly increase impact resistance, making your roof hailstorm-ready.
- ENHANCE**
Boost wind resistance, ensuring your shingles stay put even in extreme weather.
- PRESERVE**
Create a hydrophobic barrier that repels water and prevents moisture damage.
- LONGEVITY**
Extend the life of your roof by up to 15 years with just one treatment.

Application Instructions:

- 01 Ensure the roof is clean and free from debris.
- 02 Shake well before use.
- 03 Apply GoNano Shingle Saver evenly across the roof surface using a sprayer or roller.
- 04 Allow the product to dry for at least 24 hours before exposure to rain or heavy foot traffic.
- 05 Apply in dry conditions with temperatures above 50°F (10°C) for optimal results.