



US RESIDENTIAL SALES PRESENTATION

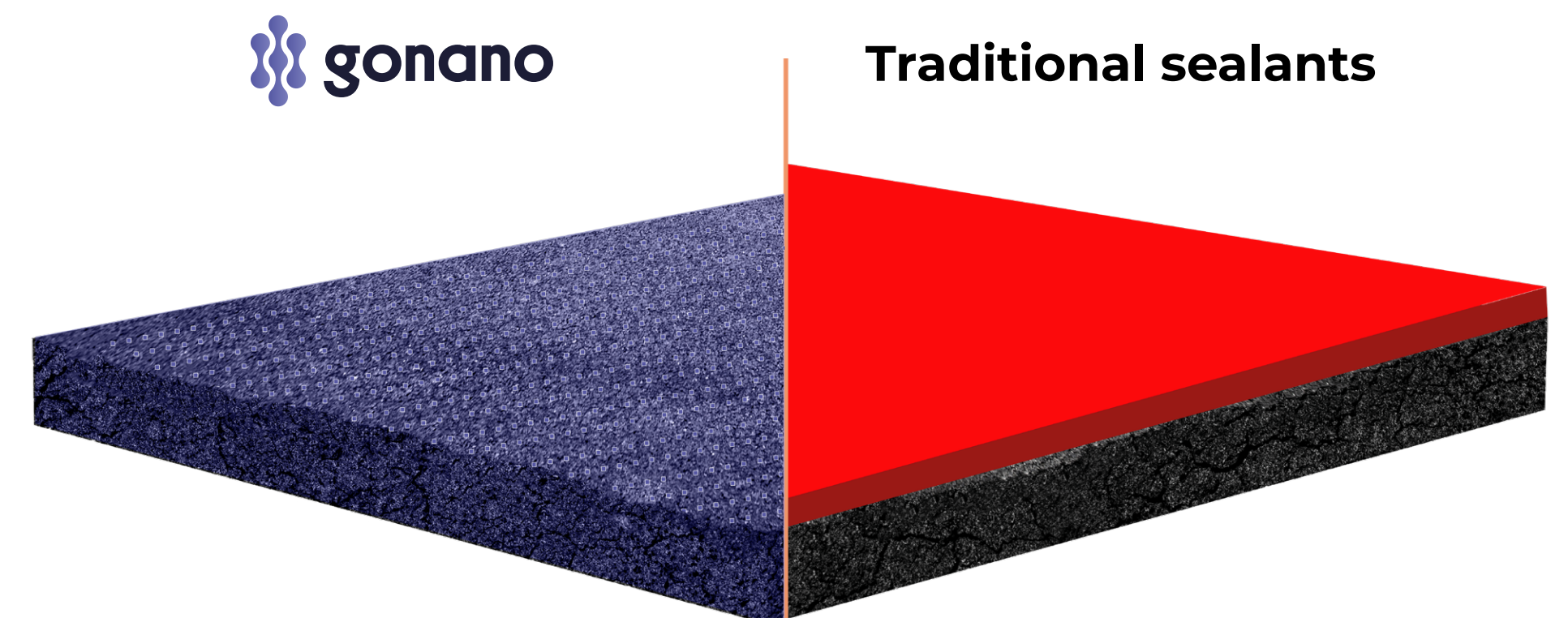
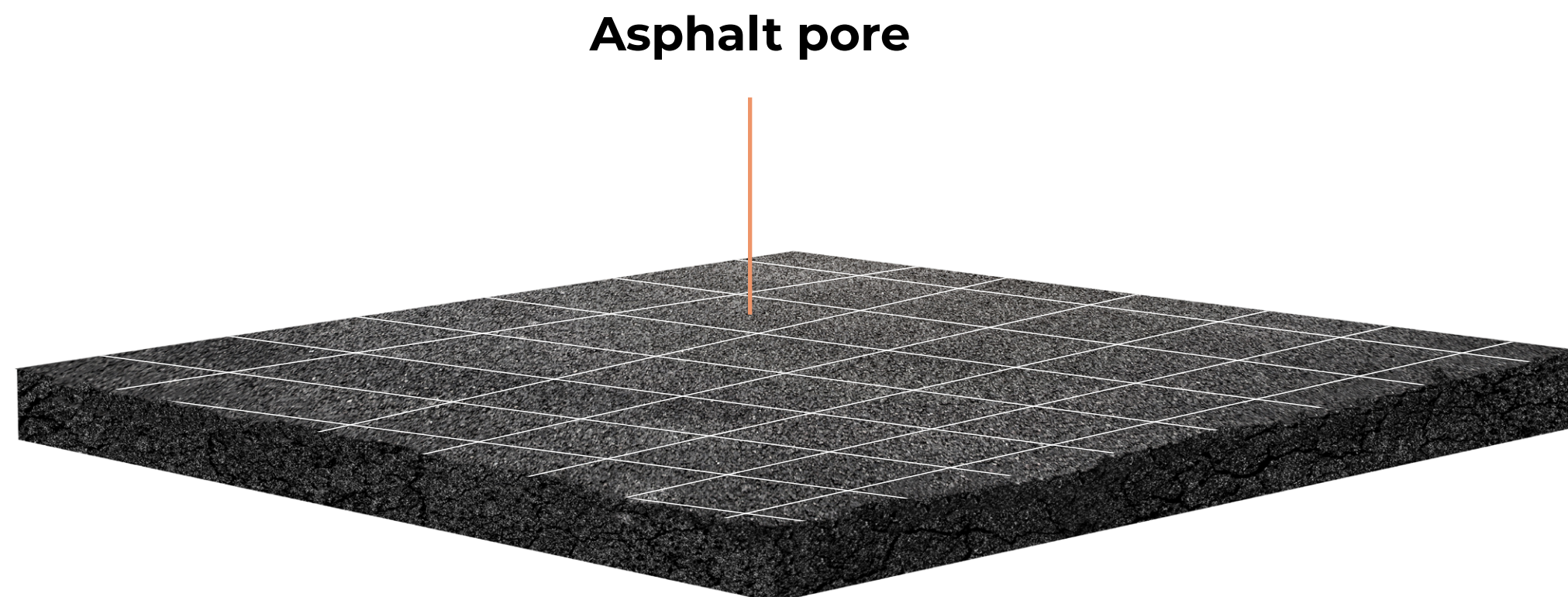
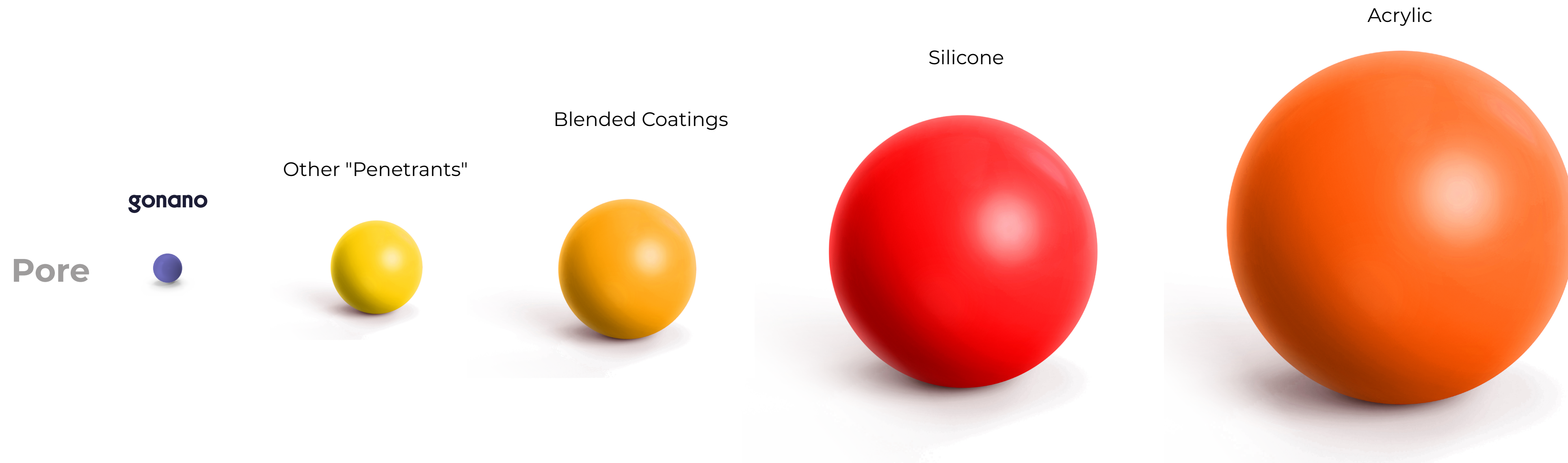
TECHNOLOGY FOR SHINGLES

**Add 10 to 15 years
of additional lifespan
to your roof**



GONANO PARTICLES

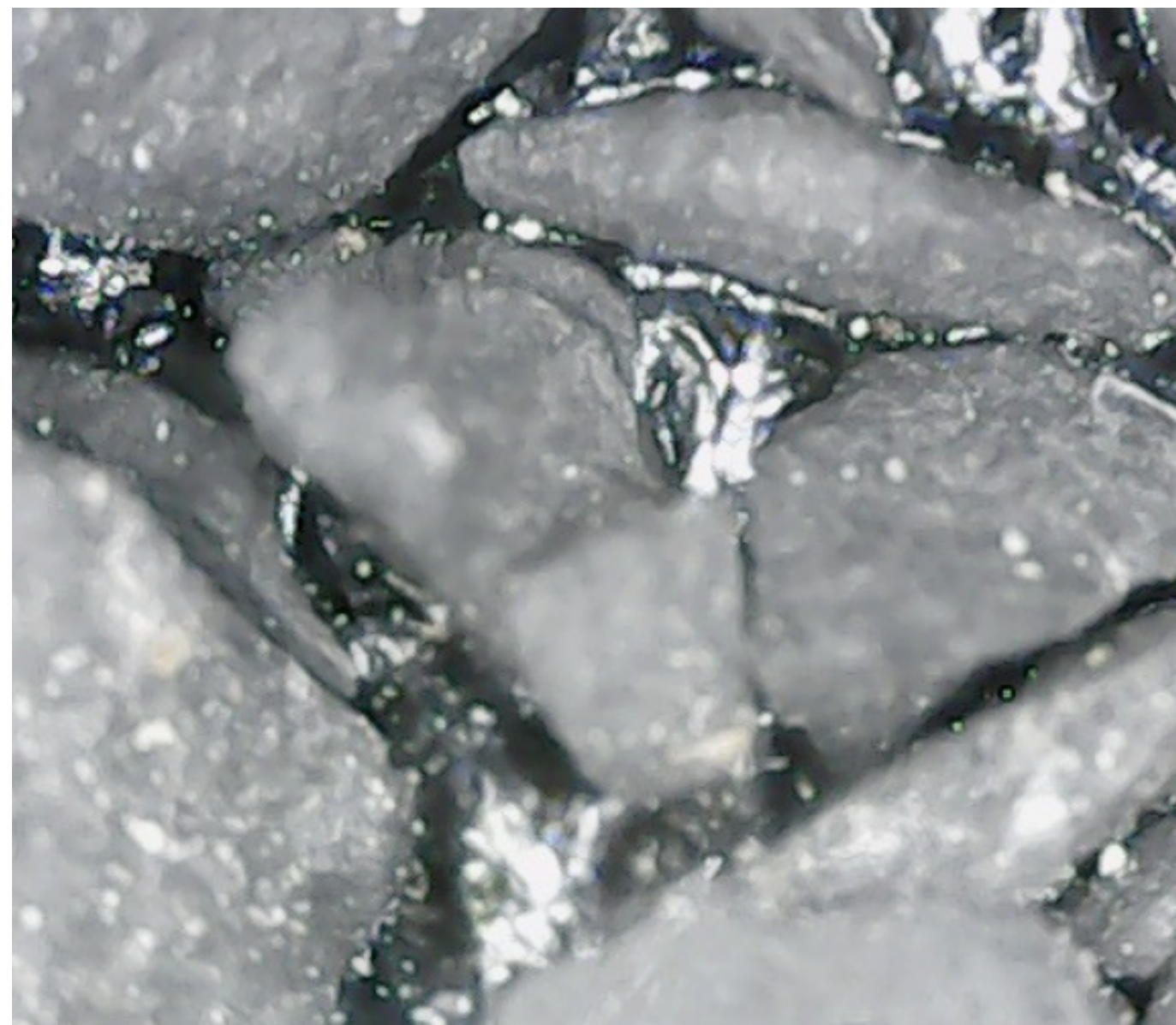
gonano vs traditional sealants



GONANO EVOLUTION

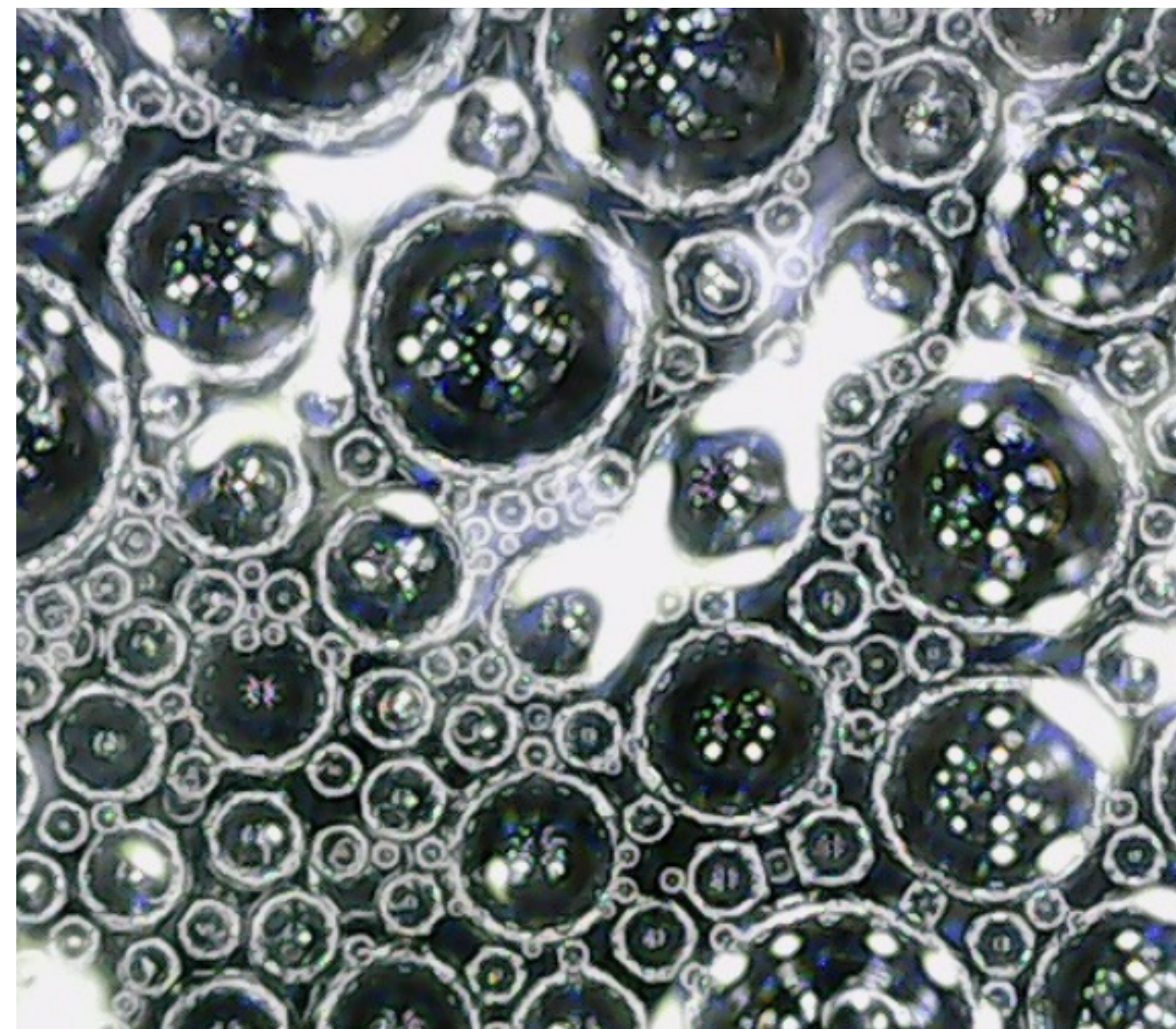
Permanent structure modification

Before



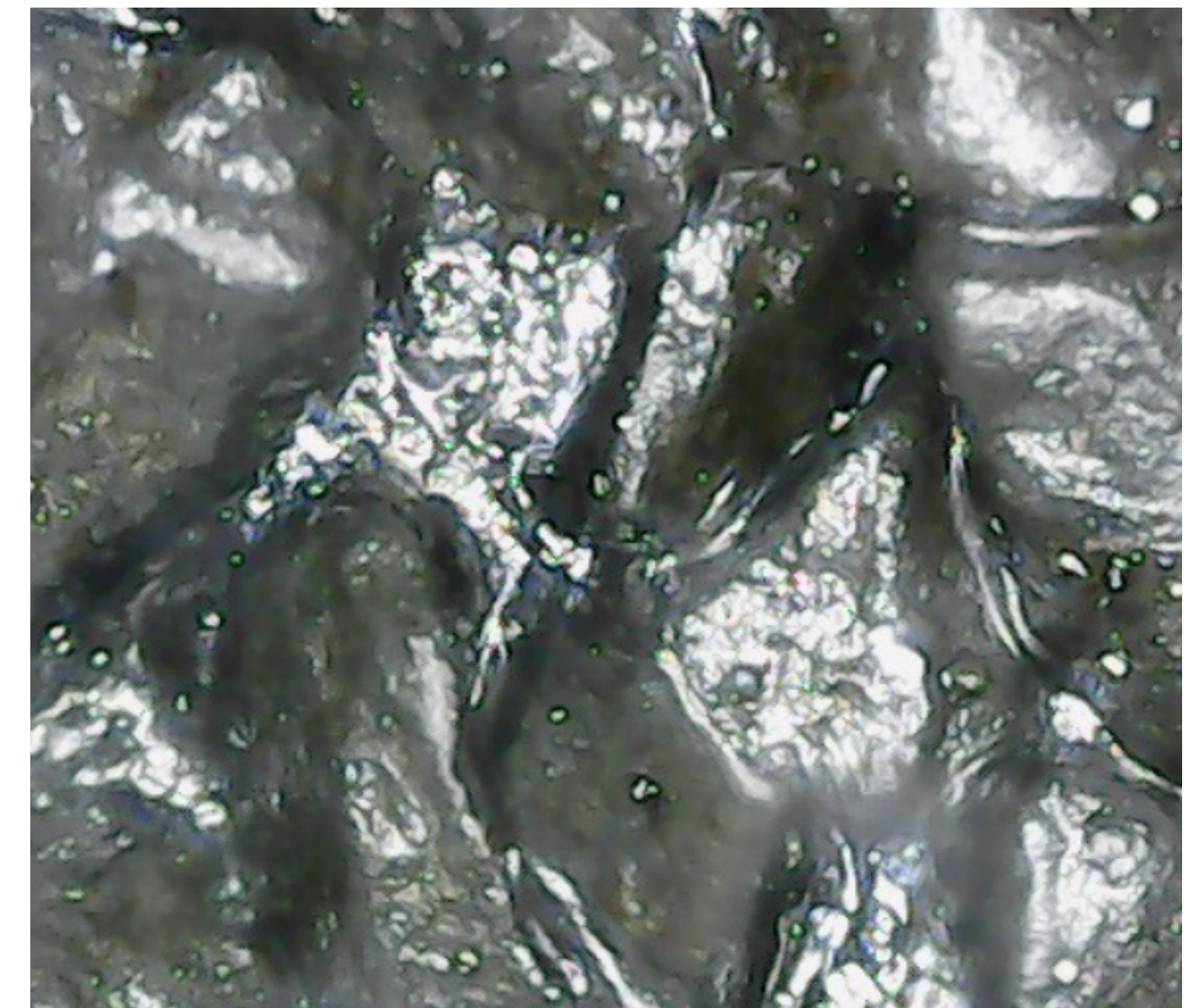
Regular shingle

During



A modification reaction takes place everywhere in the shingle

After

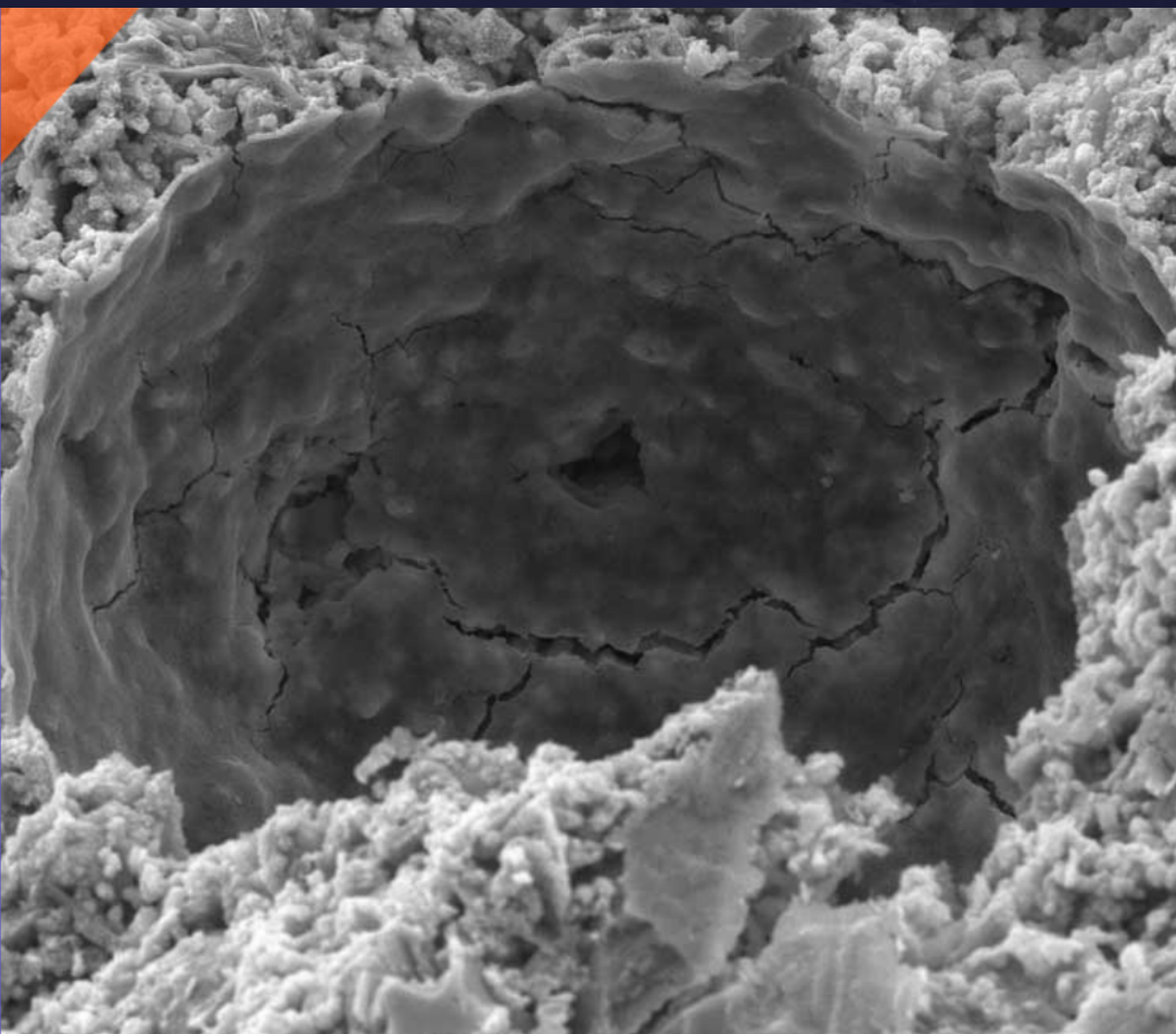


GoNano modified shingle

GONANO COMPARAISON

Before and after

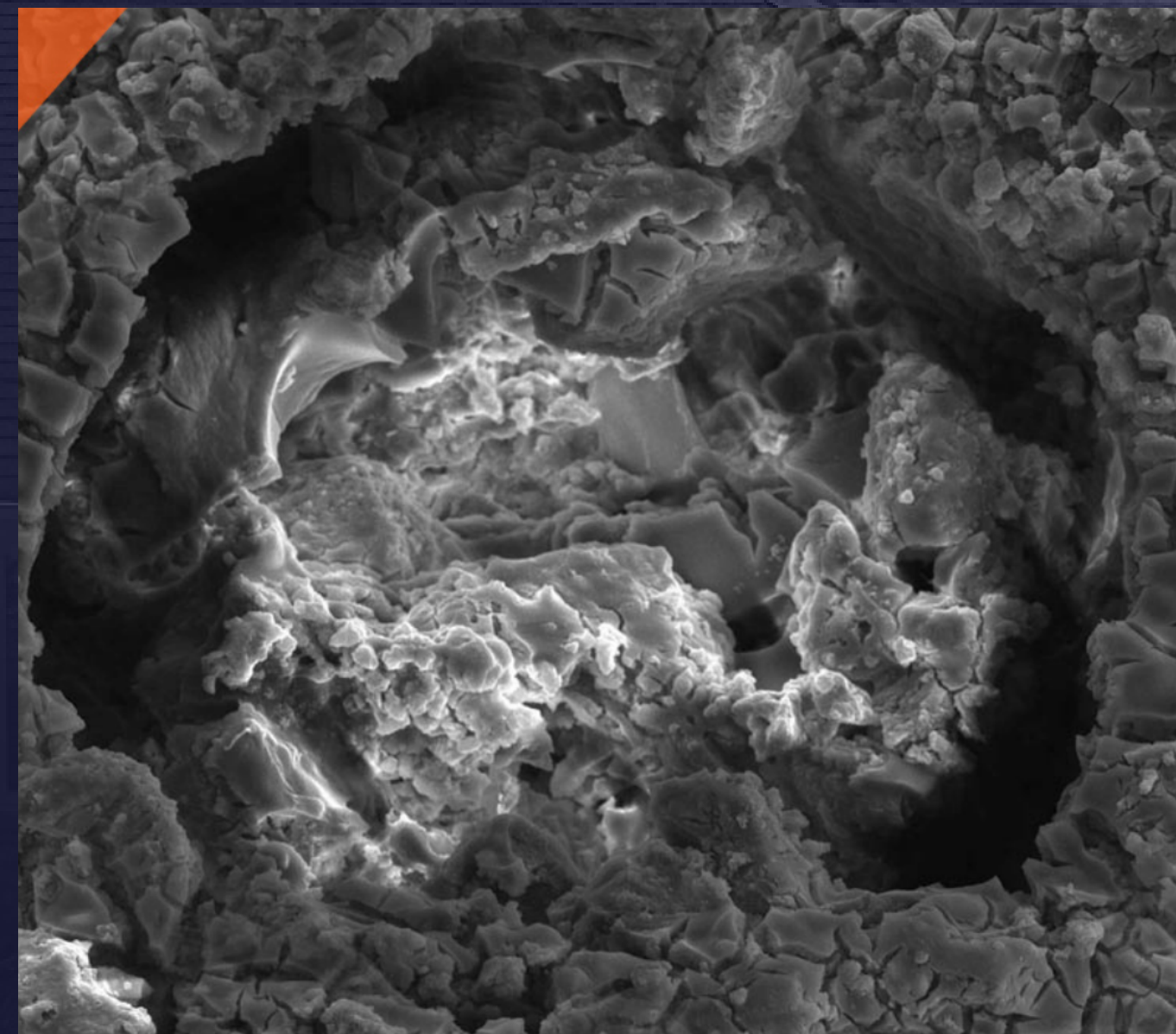
Before modification



Regular shingle:

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

After gonano

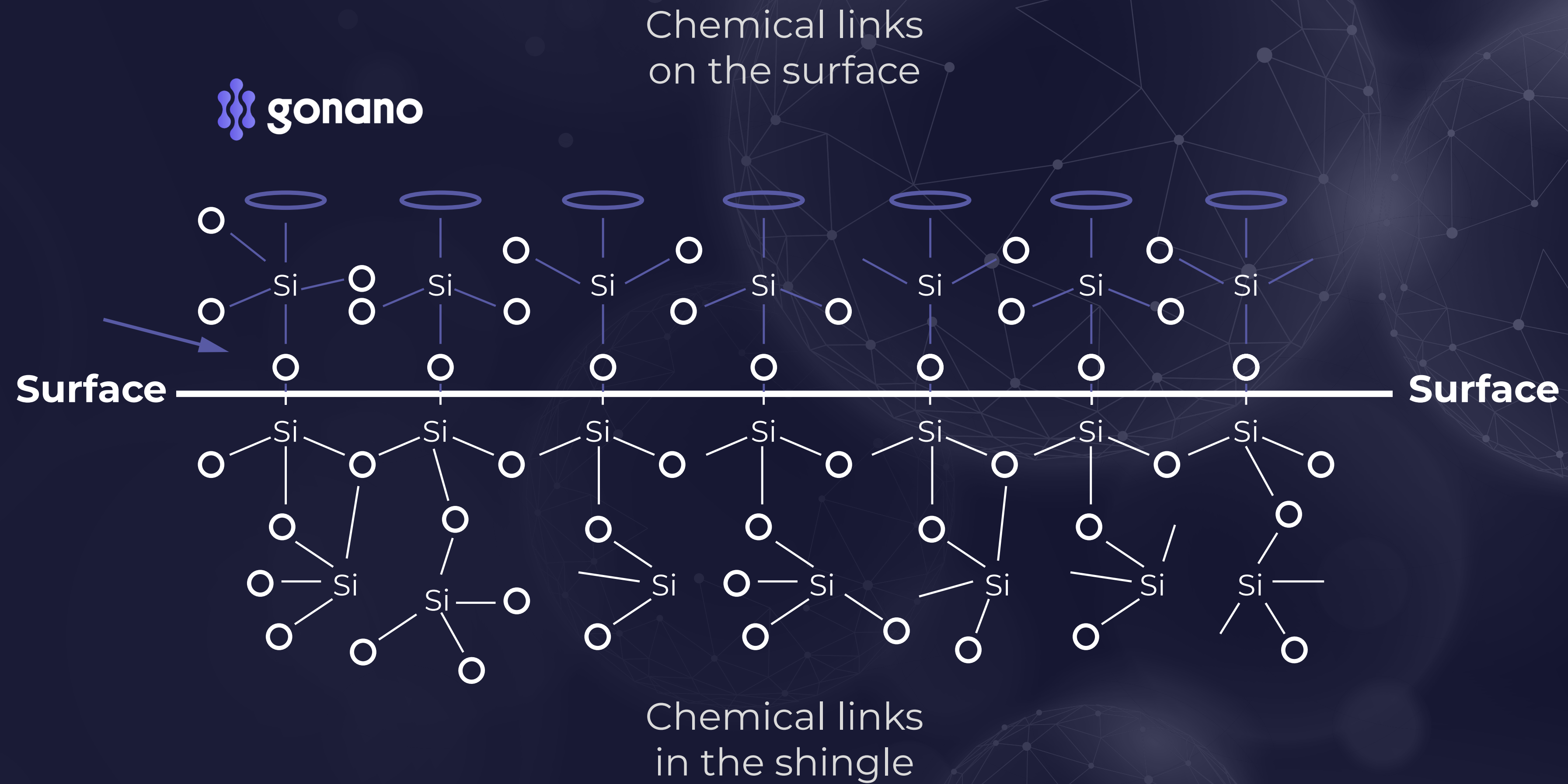


Modified shingle:

- Color
- Density
- Tissue patern

GONANO EFFECT

Complete modification



GONANO SCIENCE

The 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

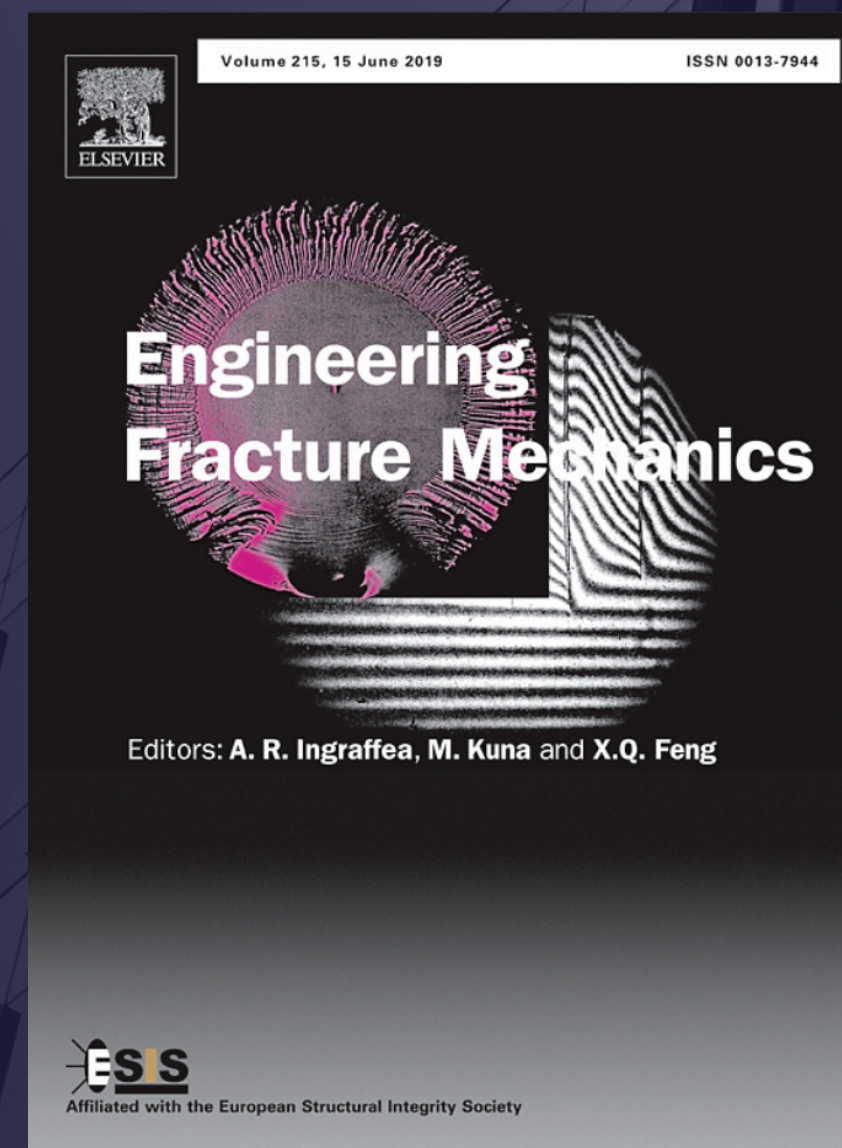


"(...) has a positive influence on different properties of the asphalt binder and mixture and can be used to construct durable pavements, thereby reduce the life-cycle costs of the pavement"

Mahmoud Enieba, Aboelkasim Diabb, Department of Civil Engineering, Assiut University, 71516, Egyp

GONANO SCIENCE

The science is settled



"(...) the nanomaterials also gave good indications regarding an enhanced aging resistance."

João 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."

GONANO IMPACTS

Technological impacts

New properties	Advantages
Flexibility	Increased resistance to hailstorms and High Winds
Hydrophobic	Cleans and prevents algae
Increased resistance to	Reduces/prevents water infiltration
Heat	Preserves and regenerates original colour
Oxydation	Stops loss of granules
UV	More effective evacuation of ice and snow
Anti Moisture	

UL STANDARDS IMPACT RESISTANCE RESULTS (UL 2218)
(ENGINEERING REPORT + TESTING VIDEO)

UL Standards impact resistance results (UL 2218)

GONANO CLASS

Class 1 Shingle vs Class 4 Shingle



Class 1

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



Class 4

1. Highest impact resistance
2. Low loss of granules
3. Lifespan: 22-25 years
4. Cost: \$9-10 a S/F

IMPACT RESISTANCE TESTING

Hail size (in.)	1 1/4"	1 1/2"	1 3/4"	2"
Class	1	2	3	4

UL Standards and IBHS & Insurance companies

What are impact-resistant roofing materials?

Impact-resistant shingles and other roofing materials are designed to resist damage from hail and flying debris — abuse that might damage ordinary shingles. Shingles on an impact-resistant roof are designed to withstand high winds and hail damage and have a Class 4 rating (see below). Hailstorms are responsible for **more than \$10 billion** in annual property damage, and they are particularly hard on roofs. That's because hailstones can form up to five inches or more in diameter, and pelt your roof at speeds of 90 miles an hour or more.

And while the average life span of some roofs is 20 years, roofs in severe hail-prone areas often must be replaced every seven to 10 years, according to the **Insurance Institute for Business and Home Safety (IBHS)**. The IBHS is one of the organizations — including State Farm[®], which has an in-house laboratory in Bloomington, Illinois — whose researchers have devoted years to field and lab research studying hail and testing the materials designed to handle it. (The IBHS has a **newly instituted rating system** for impact-resistant shingles that includes reviews of denting, tears and granule loss.)

You can choose impact-resistant shingles such as asphalt or a **metal roofing material** in a variety of popular styles, including individual shingles and other roofing materials. Impact-resistant shingles resembling wood or slate that are made of cement, plastic, molded polymer or recycled resin or rubber are also available in multiple colors.

How are impact-resistant roofing materials rated?

Two companies — Underwriters Laboratories (UL) and FM Approvals — are typically used to rate the impact resistance of roofing materials, according to Mark Graham with the National Roofing Contractors Association.

In UL testing, steel balls of different sizes are dropped from varying heights onto newly manufactured roof coverings.¹ In FM Approvals testing, premolded ice balls in various sizes are launched onto newly manufactured material.

"Hailstorms are responsible for more than \$10 billion"

"Insurance Institute for Business and Home Safety (IBHS)"

"Underwriters Laboratories (UL)"

"are typically used to rate the impact resistance of roofing materials"

www.statefarm.com

Insurance companies: Class 3 and 4 insurance reduction



TEXAS DEPARTMENT OF INSURANCE
Regulatory Policy Division - Personal and Commercial Lines Office (104-PC)
333 Guadalupe, Austin, Texas 78701 ★ PO Box 149104, Austin, Texas 78714-9104
(512) 676-6710 | F: (512) 490-1014 | (800) 578-4677 | TDI.texas.gov | @TexasTDI

PC068 | 1004



ROOFING INSTALLATION INFORMATION AND CERTIFICATION FOR REDUCTION IN RESIDENTIAL INSURANCE PREMIUMS

NOTICE TO HOMEOWNER. Completion of this certificate will entitle you to a reduction in your residential insurance premium. This certification form is solely for the purpose of enabling residential property owners to obtain a reduction in their residential insurance premium and it is not to be construed as any type of express or implied warranty by the manufacturer, supplier, or installer.

Name of Roofing Company: _____
Street Address: _____
City: _____ County: _____ Zip Code: _____
Phone: _____ License Number (if any): _____

Address of Residence (Installer must complete the following information before signing form)

Name of Owner: _____ Home Phone: _____
Address: _____ Phone: _____
City: _____ County: _____ Zip Code: _____

I, _____, an authorized representative of _____ roofing company, do hereby certify that

I have installed in accordance with the manufacturer's specifications on the above described residence a roof covering listed as complying with Underwriters' Laboratory Standard 2218, Impact Standard for Impact Resistance of Prepared Roof Covering Materials, with an impact resistance Classification of:

Class 1 Class 2 Class 3 Class 4

Manufacturers' Name: _____



Roofing Installation Information and Certification for Reduction in Residential Insurance Premiums

Notice to Homeowner. Completion of this certificate may entitle you to a reduction in your residential insurance premium. This certification form is solely for the purpose of enabling residential property owners to apply for a reduction in their residential insurance premium and it is not to be construed as any type of express or implied warranty by the manufacturer, supplier, installer, State Farm Fire and Casualty Company or State Farm Lloyds. Premium reductions are not available for roofs (other than qualifying metal roofs) that have been overlaid onto existing roofs.
Note: To receive a premium reduction for qualifying metal products, you must accept an exclusion of certain damages to metal roof products outlined in an endorsement that will be a part of your policy. You have a choice whether to request the premium reduction and accept the exclusion of damages to metal roofs. Submission of this form to State Farm is one part of your request and your acceptance of the exclusion of damages. See your agent for details. (Exception: metal roofs are not eligible for this premium reduction in Wyoming.)

Name of Roofing Company: _____
Street Address: _____
City: _____ State: _____ Zip Code: _____
Phone: _____ License Number, if any: _____

Address of Residence (Installer/Inspector must complete the following information before signing form)

Name of Owner: _____ Home Phone: _____
Address: _____ Office Phone: _____
City: _____ State: _____ Zip Code: _____
Policy Number: _____

I, _____, an authorized representative of _____

_____ roofing company, do hereby certify that I have inspected or installed, in accordance with the manufacturer's specifications, a roof shingle, tile, panel, sheet, etc. appearing on the State Farm® Qualifying Roofing Product List, with a date of installation. It is listed as complying with Underwriters' Laboratory Standard 2218, Impact Standard for Impact Resistance of Prepared Roof Covering Materials, or as complying with Factory Mutual Standard 4473, Specification Test Standard for Impact Resistant Testing of Rigid Roofing Materials by Impacting with Freezer Ice Balls. The impact resistant roof covering covers the entire roofing surface, including the main areas of the roof and the hips and ridges (including the ridge vent system). The properties of the product used in hip and ridge applications must be of like kind and quality to that of the installed approved product. The roof covering has not been overlaid onto existing roofing material (other than qualifying metal roofs), and is free of defects or damage, including hail damage.

Manufacturer's Name: _____
Brand Name: _____
Year Manufactured: _____ Product Color: _____
Date of Installation: _____

UL 2218 / FM4473
Classification:

Class 3

Class 4

UL 2218 / FM4473
Classification:
 Class 3
 Class 4

GONANO INSURANCE

Insurance companies: Class 3 and 4 insurance reduction



ROOFING INSTALLATION INFORMATION AND CERTIFICATION FORM

NOTICE TO INSURED: Completing this certificate may entitle you to a reduction in your residential insurance premium. This certification form is solely for the purpose of enabling residential property owners to apply for a reduction in their residential insurance premium and it is not to be construed as any type of express or implied warranty by the manufacturer, supplier, installer or United Services Automobile Association. Premium reductions are not available for roofs that have been overlaid onto existing roofs. **To receive a premium reduction, for qualified roofing products, you must also sign an endorsement (Cosmetic Damage Exclusion to Roof Coverings Caused by Hail).**

Installer or Inspector must complete and certify all the following information below before signing this form:

Name of Roofing or Inspection Company: _____

Street Address: _____ City: _____ County: _____

Zip Code: _____ Phone: (____) _____

License Number, If Any: _____

Residence Information:

Name of Dwelling Owner: _____ Phone: (____) _____

Dwelling Street Address: _____ City: _____ County: _____

Zip Code: _____ State: _____

I, _____ an authorized representative of _____ roofing or inspection company, do hereby certify that I have inspected or installed, in accordance with the manufacturer's specifications on the above-described residence, roof shingle, tile, panel, sheet, etc. All roof covering materials are listed as complying with Underwriters' Laboratory (UL) Standard 2218, Impact Standard for Impact Resistance of Prepared Roof Covering Materials, or as complying with Factory Mutual (FM) Standard 4473 Specification Test _____ surface of the primary dwelling, including the main area _____ properties of the product used in hip and ridge application _____ that the roof covering has not been overlaid onto existing roofing material and is free of defects or damage, including hail damage.

UL 2218 / FM 4473 classification

Select the UL 2218 / FM 4473 classification with an X in the appropriate box below:

Class 1

Qualify for discount in Texas only

Class 2

Class 3

Class 4

Qualifies for discount in all other states (including Texas)

GONANO INSURANCE

Insurance companies: Class 3 and 4 insurance reduction



Where are roofing discounts available?

In some states use of qualifying impact resistant roofing products may qualify for significant premium discounts. Premium reductions are not available for roofs, other than qualifying metal roofs, which have been overlaid onto existing roofs.

Home insurance discounts are currently available in the following states.

Alabama	Louisiana	Ohio
Arkansas	Michigan	Oklahoma
Colorado	Minnesota	South Carolina
Georgia	Mississippi	South Dakota
Illinois	Missouri	Tennessee
Indiana	Montana	Texas
Iowa	Nebraska	Wisconsin
Kansas	New Mexico	Wyoming
Kentucky	North Dakota	See all states

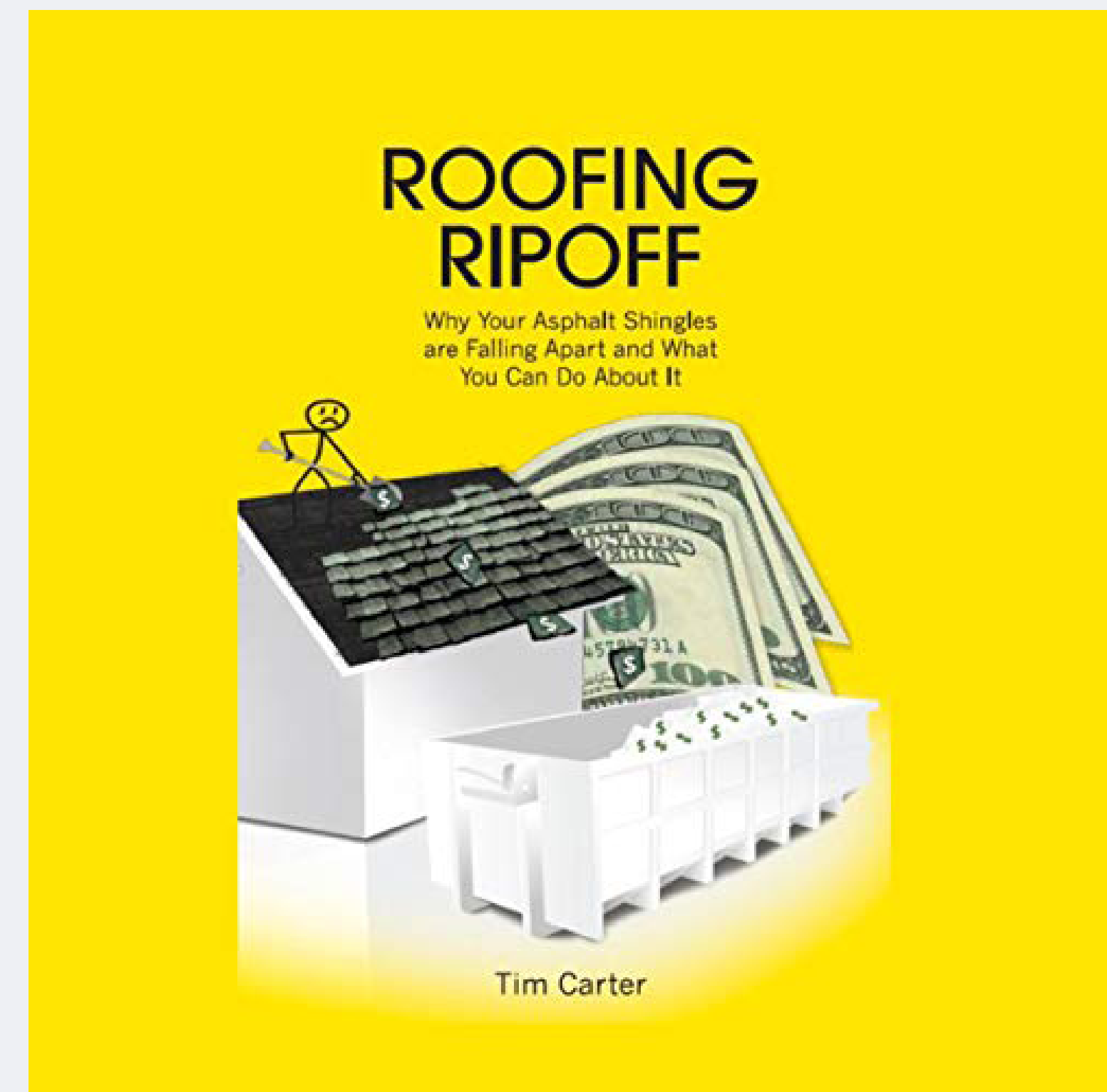
*"resistant roofing products may qualify
for significant premium discounts."*

www.statefarm.com

ROOFING RIPOFF

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 discoverd is going to make your blood boil"



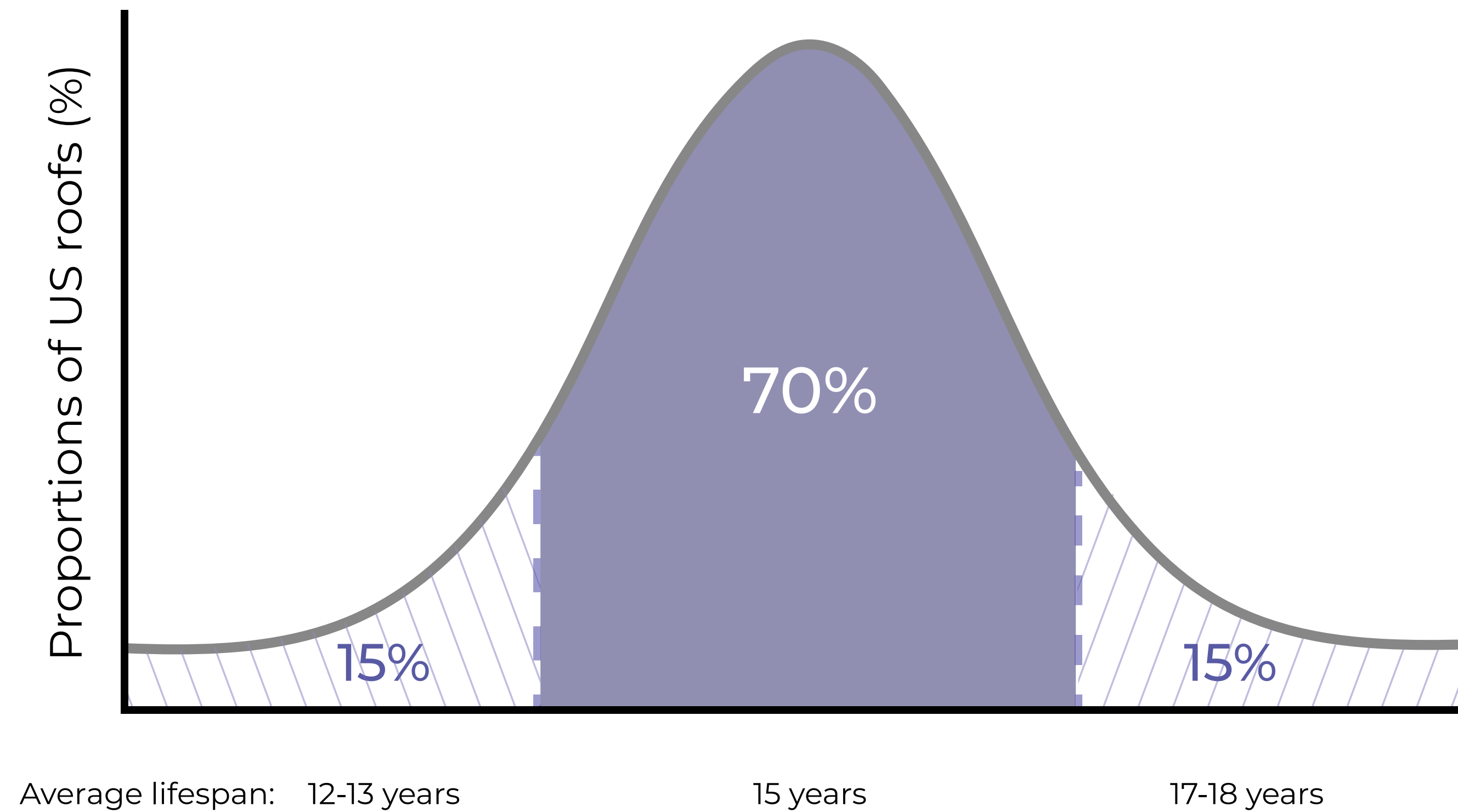


Give your shingles 10 to 15 years of life.

EFFECTIVE - SIMPLE - PERMANENT

GONANO

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 Cobra® 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 Master Flow® 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 Cobra® 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/LRS 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****: 130/209 Without Special Installation****: 110/175	StainGuard Plus™: 25 Years StainGuard®: 10 Years	StainGuard Plus™: 10 Years StainGuard®: 1 Year

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

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

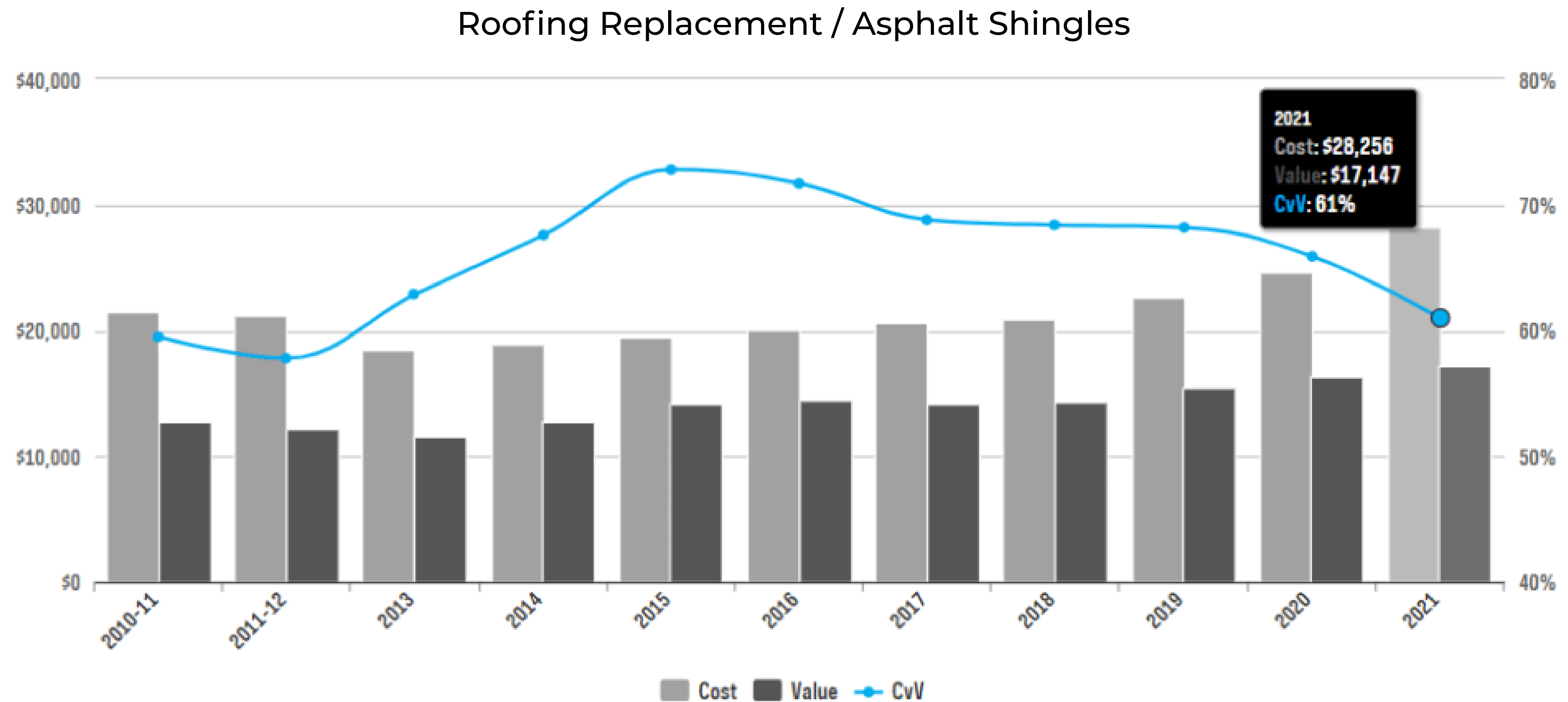
Manufacturing Defects: What Is Covered/Sole and Exclusive Remedy

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%.

Average US roof replacement cost



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:

1. "Quickly biodegradable"
2. "No bioaccumulation potential"
3. "No harm for aquatic organisms"

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

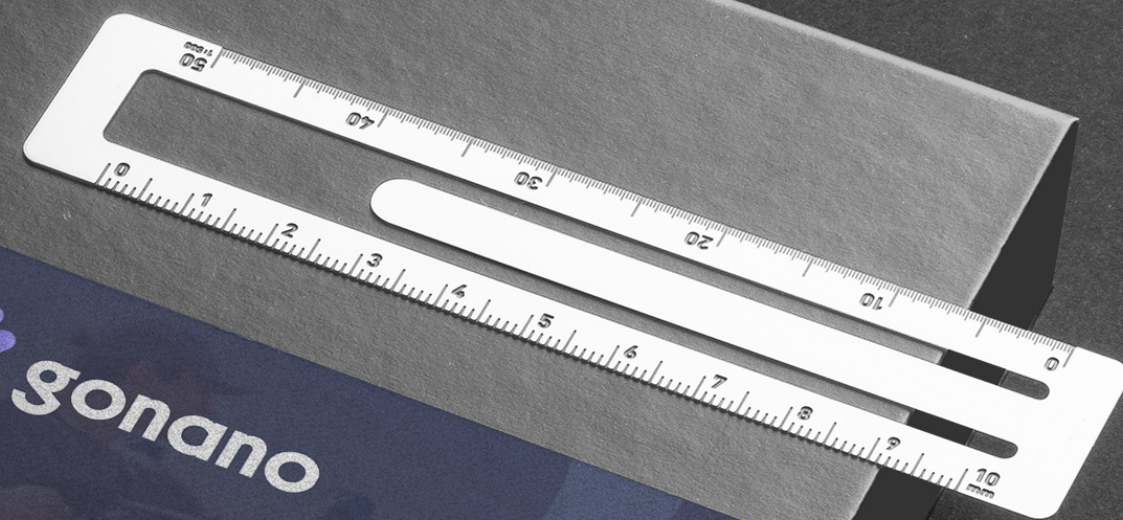
GoNano Technologies VS Competition

Terms	GoNano	Competition
Technology	Nanotechnology	Plant base oil substitute
What it does	Modifies permanently the structure	Replaces lost oil
Cost	\$1.00 - \$1.30 / sqft	\$1.00 - \$1.30 / sqft
Additional lifespan	10 to 15 years	5 years
Warranty	10 to 15 years money back	5 years
Rejuvenates	Yes	Yes
UL Standards tested	Yes	No
Insurance companies	Soon recognized	No
Insurance discounts	Yes	No
Transforms Class 1 into 3 and 4	Yes	No
Prevents algae	Yes	No
Increases resistance to water infiltration	Yes	No

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Give your shingles
10 to 15 more years of life.

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GET THE MOST OUT
OF YOUR ROOF
SHINGLE
SAVER
4L

