Concrete Saver
Technical Data Sheet

GoNano Concrete Saver

PROTECT ALL YOUR CONCRETE SURFACES WITH WITH
THE ONLY 100% ACTIVE NANOPARTICULES COATING .

Description

Protect your concrete with the most advance deep penetrating coating. It's breathable, clear, hydrophobic, and protect from water and salt damage.
Also, it provides an exceptional organic growth resistance.

With the latest advances in nano technology, we can now offer a sustainable solution for concrete construction.

Once applied the change of the surface tension creates a surface environment that is hydrophobic forming an effective shield that aides in a dramatic reduction of chloride ion ingress (salt intrusion) that aides in a dramatic reduction of chloride ion ingress (salt intrusion) that cause many structural damage to structure.

The coating is clear leaving the concrete appearance completely natural.

Ressistance againts:

Water, salt, UV and organic growth.

Color:

Transparent

Efficacity:

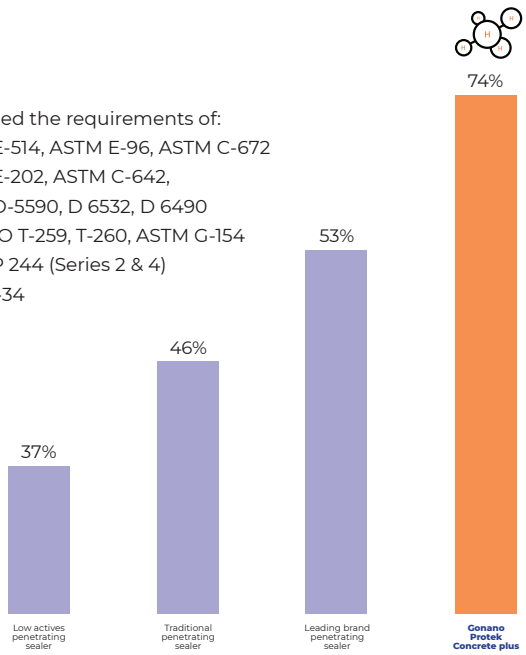
12-15 years

Composition:

Proprietary blend of nanoparticules of silane & siloxane.

DEPTH OF PENETRATION, WATER REPELLENCY AND WEATHERING RESISTANCE FOR CONCRETE IN HUMID REGION

Exceeded the requirements of:
ASTM E-514, ASTM E-96, ASTM C-672
ASTM E-202, ASTM C-642,
ASTM D-5590, D 6532, D 6490
AASHTO T-259, T-260, ASTM G-154
NCHRP 244 (Series 2 & 4)
OHD L-34



TECHNOLOGY

Composition

Using a proprietary blend of nanotechnology particules of silane & siloxane with a really small molecular structure to allows a deeper penetration.

Exceptional Waterproofing

Penetrates deep within the concrete chemically reacting within the pores and capillaries creating a long lasting hydrophobic surface that beads water.

Resist Staining From Grease & Food Exposure

Makes oil and grease easier to clean and remove from treated surfaces decreasing maintenance requirements.

100% Breathable

Non-film forming. Allows moisture within the concrete to escape without adverse effects to the sealer. Does not trap moisture.

Increases Abrasion Resistance

Reduces concrete dusting. Provides ease of maintenance, resist ASR / Alkali attack.

Protects Against Chloride & Ion Penetration

Forms an effective chloride screen dramatically reducing chloride ion ingress preventing deicing salt / chloride damage.

Resist Oxidization

Inhibits rust and corrosion of rebar in reinforced concrete by limiting substrates water absorption.

Stops Moisture Intrusion

Resists wind-driven rain, spalling, pitting and cracking.

Resist Atmospheric Staining

Resists mold, mildew and efflorescence.

BENEFITS

Improves Durability

Prevents capillary uptake of water and the aggressive substances dissolved in it.

Natural Flat Finish

Does not change surface appearance, UV stable will not breakdown with light exposure.

Can Be Applied To Cured, Honed and Polished Concrete

Ideal for horizontal surfaces exposed to pedestrian and vehicle traffic or for verticale structures.

Leading 10 Year Warranty

The product will never delaminates, never diffuses, peel or flakes will not discolor yellow or degrade from UV light exposure.

Excellent Penetration Depth

into any concrete, brick or masonry substrate.

PROPERTIES

Appearance

Slight yellowish tint (dries clear)

Packaging

4L

VOC'S

100g/L maximum

Flash Point

109° F (43° C)

Specific gravity

0.74 Density - 6.1 lb/4L

Coverage with 4L

240-280 SF/4L*

*Depend on the porosity of the surface

TESTED AND PROVED RESULTS

TEST METHOD

ASTM E 303
Standard test method for measuring surface friction (BPT).

ASTM D 6532
Standard test method for evaluation of clear water repellents on water absorption in concrete.

ASTM D 6490
Standard test method for water vapor transmission or non film forming agents

ASTM E 514
Standard test method for water penetration and leakage through masonry

ASTM D 6532
Standard test method for evaluation of clear water repellents on water absorption in concrete

ASTM C642
Standard test method for density, absorption and voids in hardened concrete

ASTM C672
Standard Test Method for Scaling Resistance of Concrete Surfaces Exposed To Deicing Chemicals

CANADA DOT penetrating sealer,
Type 1b

NCHRP
Series II-Cube test

NCHRP
Series II-Cube test

NCHRP
Series IV - Southern Climate

TYPE	RESULTS
Skid Resistance Troweled Concrete	
Untreated	90
Treated	90
Water Absorption, %	
Concrete	0.23
Brick	0.01
Water Vapor Transmission	
WVT (grains/h/ft^2)	2.0
Permeance (perms)	4.8
Water Penetration of Masonry, %	
Reduction Dampness	100
Leakage	100
Water Exclusion, %	
Concrete	96
Brick	99
Water Absorption, %	
48 hours	0.32
50 days	0.94
Scaling resistance rating, non-air- entrained concrete	
100 cycles	0-No scaling
Water Repellency After Heavy Abrasion, %	88.6 (exceed criteria)
Water Weight Gain, % Reduction	89
Absorbed Chloride, % Reduction	94
Absorbed Chloride, % Reduction	98.4 (exceed criteria)

Test results are averages obtained in a controlled environment, material and curing conditions of 30°C and 58% relative humidity. Reasonable variations should be expected.

The only protection you will ever need in your concrete constructions

APPLICATION

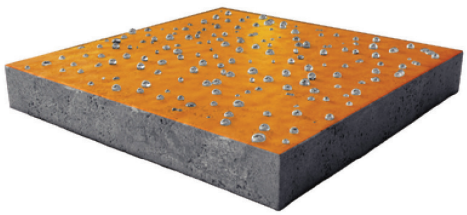
- Interior // exterior concrete
- Horizontal // vertical substrates
- Reinforced concrete structures
- Traffic-bearing concrete substrates
- Bridge decks and substructures
- Concrete ramps and barriers
- Parking garages
- Stadiums and buildings
- Concrete driveways, loading docks, public sidewalks and garages
- Roofs
- Plazas

- Concrete
- Brick and Masonry
- Stucco
- CMU
- Exposed aggregate
- Pavers

SUBSTRATES

Untreated Concrete,
Showing Chloride Intrusion

Water, Soluble Deleterious Materials &
Chlorides Repelled By Gonano



Gonano Products are
Simple to Install and Dries Clear

Gonano dries completely clear protecting the concrete from surface damage

SURFACE PREPARATION

1 New Constructions

New “green” concrete must be properly cured. Concrete should obtain 80% of design strength, typically achieved within 14-28 days.

2 Clean

The concrete 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 sealer.

Power wash, acid etch or mechanically scarify 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.

3 Installation Temperature

Surface and air temperatures must be at least 1°C during application. Surface and air temperatures should not exceed 35 °C.
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

4 Reparations

Crack, patching and expansion joint sealants can be applied before or after application; always test for compatibility and adhesion.

5 Protection

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

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 throughly before and during application. Do not dilute or alter material for purposes other than specified.

3 Application

Apply with a roller, brush or low-pressure non-atomizing sprayer. Apply to saturation and roll or broom out any puddles until the sealer penetrates the substrate. If it starts to rain, stop treatment and cover the impregnated areas.

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. Treated surfaces will be ready for pedestrian and vehicle traffic within 24 hours.

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

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.

Precautions/Safety

Avoid contact with skin, eyes and clothing, do not take internally. Use appropriate safety equipment during application and handling.

BEST PERFORMANCE

- Proper application is the responsibility of the user.
- Will not inhibit water penetration through unsound or cracked surfaces with defective flashing, caulking or structural waterproofing.
- Spills should not be allowed to sit for extended periods of time, clean all spills in a timely manner.
- Should not get into direct contact with bitumen.
- Take caution with specially coated glass. Test small areas before application to ensure the product does not discolor the coating. Plastic windows will turn opaque when sprayed with this product.
- Make sure the most current versions of technical data sheets are being used.

COVERAGE

18-22 square meter per 4L.
220-260 SF / 4L (1.05 Gallon).

Variations in texture and porosity of substrate will affect the coverage and performance of the product.

WARRANTY

Les Produits GONANO Inc. warrants this product to be free from manufacturing defects and to meet the technical properties on the current Technical Data Sheet if used as directed within shelf life. Satisfactory results depend not only on quality products but also upon many factors beyond our control. Les Produits gonano Inc. makes no other warranty or guarantee, express or implied, including warranties of merchantability or fitness for a particular purpose with respect to its products. The sole and exclusive remedy of Purchaser for any claim concerning this product, including but not limited to, claims alleging breach of warranty, negligence, strict liability or otherwise, is the replacement of product or refund of the purchase price at the sole option of Les produits gonano Inc.. Any claims concerning this product must be received in writing within one (1) year from the date of shipment and any claims not presented within that period are waived by Purchaser. Les produits gonano Inc. will not be responsible for any special, incidental, consequential (including lost profits) or punitive damaged of any kind.

Purchaser must determine the suitability of the products for the intended use and assumes all risks and liabilities in connection therewith. This information and all further technical advice are based on Les produits gonano Inc. present knowledge and experience. However, Les Produits Gonano Inc. assumes no liability for providing such information and advice including the extent to which such information and advice may relate to existing third party intellectual property rights, especially patent rights, nor shall any legal relationship be created by or arise from the provision of such information and advice. Les Produits Gonano Inc. reserves the right to make any changes according to technological progress or further developments. The Purchaser of the Product(s) must test the product(s) for suitability for the intended application and purpose before proceeding with a full application of the product(s). Performance of the product described herein should be verified by testing and carried out by qualified experts.

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