



**INDUSTRIAL  
NANO COATINGS**

## INDEX

<b>C Series</b> Nano Coating for Glass and Ceramic Surfaces	<b>04</b>
<b>OMNIPHOB Series</b> Nano Coating for Thermoset, Thermoplastic, Metal, and Painted Surfaces	<b>06</b>
<b>FCC02</b> Film Protective Nano Coating	<b>08</b>
<b>T Series</b> Nano Coating for Textile Surfaces	<b>10</b>
<b>Z Series</b> Nano Coating for Absorbent Mineral Surfaces	<b>12</b>
<b>W Series</b> Nano Coating for Natural Wooden Surfaces	<b>14</b>
<b>LC12</b> Nano Coating for Leather Surfaces	<b>16</b>
<b>MP55</b> Anti-Corrosion Nano Coating for Various Surfaces	<b>18</b>
<b>Anti-GRM</b> Anti-Graffiti Nano Coating for Various Surfaces	<b>20</b>
<b>SHBC</b> Superhydrophobic Nano Coating for Various Surfaces	<b>22</b>
<b>Anti-VRL</b> Antiviral and Antibacterial Nano Coating for Various Surfaces	<b>24</b>
<b>TF</b> Temporary Film Coating	<b>26</b>
<b>P45</b> Nano Coating for Plastic and Painted Surfaces	<b>28</b>
<b>SolarCoat GC</b> Nano Coating for Tempered Glass Solar Panels	<b>30</b>
<b>SolarCoat FC</b> Nano Coating for All Glass and Other Solar Panels	<b>32</b>
<b>SolarRinse</b> Cleaning Detergent for Solar Panels	<b>34</b>
<b>SolarClean</b> The Ultimate Pre-Cleaner for Solar Panels	<b>36</b>
<b>PRODUCT SPECIFICATION TABLE</b>	<b>38</b>

## **NASIOL is the world's leading producer of surface protection solutions using the latest developments in nanotechnology.**

Nasiol supports its customers in every sense in industrial sales processes and approaches as a solution partner. Nasiol gives consultancy on many different topics.

- Product training
- Marketing support
- Technical support
- Problem solution
- R&D - P&D support and joint project development
- New product development
- Providing samples are some of the examples that require expertise.

Each one of our nanocoatings has unique value propositions but the most common benefits of nano protection coatings are:

- Anti-corrosion
- Hydrophobicity
- Oleophobicity
- Scratch resistance
- Easy to clean
- Anti-graffiti
- Stain resistance
- UV protection
- Chemical protection
- Antimicrobial and antiviral coatings



# C Series

## Nano Coating for Glass and Ceramic Surfaces

Nasiol C and C1 are powerful and easy-applied nano coatings developed for glass and ceramic surfaces.

### APPLICATION OPTIONS

- Manual
- Pressurized Spraying

### CURING OPTIONS

- Room Temperature
- High Temperature

### Surface Gains

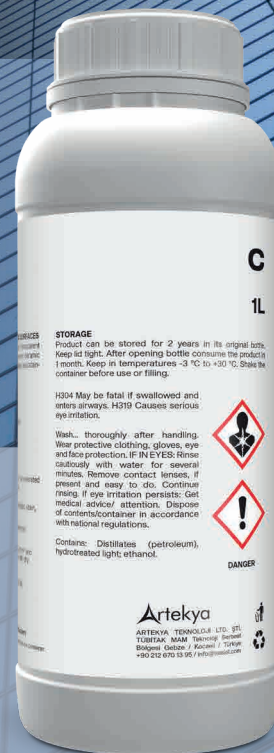
- Transparent nano coating
- Hydrophobicity
- Oleophobicity

### Benefits

- Chemical protection
- UV protection
- Dirt repellency
- Easy clean
- Anti-icing

### Benefit Outcomes

- Extends lifetime
- Saves money
- Keeps appearance
- Prevents fungi
- Less lime stain
- Less icing



Available in 1L /5L/20L Containers

## Technical Specifications

	C	C1
Appearance	Colorless Liquid	Colorless Liquid
Chemical Resistance	13>pH>1	12>pH>1
Saltwater Resistance	√	√
Moisture Resistance	√	√
Dry Film Thickness	75-100 nm	75-100 nm
Consumption per Unit Area (Manual Application)	5 mL/m <sup>2</sup>	5 mL/m <sup>2</sup>
Density @23°C	0.81 g/cm <sup>3</sup>	0.80 g/cm <sup>3</sup>
pH Value	1.9 - 2.2	1.9 - 2.2
Transparency	99%	99%
Light Refractive Index	1.625 (Glass)	1.625 (Glass)
Application Temperature	5°C/30°C (≤50% RH)	5°C/30°C (≤50% RH)
Temperature Durability	275°C	275°C
Water Contact Angle	106° @10 μL	102° @10 μL
Water Contact Angle After "3000" Wet Scrub (ISO-11998:2006)	100° @10 μL	96° @10 μL
Water Sliding Angle	15° @60 μL	28° @60 μL
Oil Contact Angle	84° @10 μL	72° @10 μL
Shelf Life	2 years when unopened, 1 month after opening	
Durability	Up to 2 years	Up to 1 year

### **Applicable Surfaces**

Glass buildings, balconies, shower cabins, showcases, windows, commercial cabinet doors, mirrors, solar panels, glass tables, coffee tables, glass surfaces of air, land, sea vehicles, glass machine, appliance parts and factory production areas where transparency/cleanliness is important (camera, sensor, lens, observation window), wet ceramic areas (pool and its surroundings, bathroom, terrace), vitrified surfaces (washbasin, toilet bowl).

\*Contact your customer representative for more.

# OMNIPHOB Series

Nano coating for thermoset, thermoplastic, metal, and painted surfaces

Nasiol Omniphob Series of products are hydrophobic, oleophobic, stain, scratch resistant and easy-to-clean durable clear coatings developed to be applied on multiple surface types.

## APPLICATION OPTIONS

- Manual
- Pressurized Spraying

## CURING OPTIONS

- Room Temperature
- High Temperature

### Surface Gains

- Ceramic nano coating
- Hydrophobicity
- Oleophobicity

### Benefits

- Chemical protection
- UV protection
- Easy clean
- Dirt repellency
- Renovation
- Scratch resistance
- High gloss effect

### Benefit Outcomes

- Extends lifetime
- Saves money
- Keeps appearance
- Satin texture
- Increased depth and clarity of the surface



Available in 1L /5L/20L Containers

## Technical Specifications

	M59	M39	M17	MO7	MO6	MG09
Appearance	Colorless Liquid	Colorless Liquid	Colorless Liquid	Colorless Liquid	Colorless Liquid	Black liquid
Chemical Resistance	12>pH>1	12>pH>1	12>pH>1	12>pH>1	12>pH>1	12>pH>1
Saltwater Resistance	√	√	√	√	√	√
Moisture Resistance	√	√	√	√	√	√
Pencil Hardness (ISO-15184:2012)	10H	10H	7H	-	-	7H
Dry Film Thickness	0.8-1.1 μm	700-800 nm	200-300 nm	200-300 nm (1 Layer) 300-400 nm (2 Layers)	200-300 nm	400-500 nm
Consumption per Unit Area (Manual Application)	4-5 mL/m <sup>2</sup>	4-5 mL/m <sup>2</sup>	5-8 mL/m <sup>2</sup>	2-3 mL/m <sup>2</sup> (1 Layer)	4-5 mL/m <sup>2</sup>	5-8 mL/m <sup>2</sup>
Density @23°C	0.87 g/cm <sup>3</sup>	0.86 g/cm <sup>3</sup>	0.8 g/cm <sup>3</sup>	0.8 g/cm <sup>3</sup>	0.8 g/cm <sup>3</sup>	0.83 g/cm <sup>3</sup>
pH Value	5 - 6	5 - 6	4.7 - 5.0	8 - 9	4.7 - 5.0	4.5 - 5.0
Application Temperature (≤50% RH)	5°C/30°C	5°C/30°C	5°C/30°C	5°C/30°C	5°C/30°C	5°C/30°C
Temperature Durability	150°C	150°C	275°C	275°C	275°C	275°C
Water Contact Angle	107° @10 μL	105° @10 μL	97° @10 μL	98° @10 μL (1 Layer) 100° @10 μL (2 Layers)	95° @10 μL	104° @10 μL
Water Contact Angle After "2000" Wet Scrub (ISO-11998:2006)	-	-	89° @10 μL	-	-	102° @10 μL
Water Contact Angle After "3000" Wet Scrub (ISO-11998:2006)	-	100° @10 μL	-	93° @10 μL	92° @10 μL	101° @10 μL
Water Contact Angle After "10000" Wet Scrub (ISO-11998:2006)	101° @10 μL	-	-	-	-	-
Water Sliding Angle	8° @60 μL	15° @60 μL	16° @60 μL	26° @60 μL (1 Layer) 15° @60 μL (2 Layers)	22° @60 μL	12° @60 μL
Oil Contact Angle	87° @10 μL	84° @10 μL	76° @10 μL	78° @10 μL	76° @10 μL	70° @10 μL
Gloss Rate @60° (ISO-2813:2014)	96 (Acrylic)	95 (Acrylic)	93 (Acrylic)	94 (Acrylic)	91 (Acrylic)	95 (Acrylic)
Shelf Life	1 year when unopened, 1 week after opening					
Durability	Up to 10 years	Up to 7 years	Up to 5 years	Up to 3 years	Up to 18 months	Up to 4 years

### **Applicable Surfaces**

Machine, device parts, factory production areas, city furniture, surfaces in public areas (stadium seats, playgrounds), traffic lights, warning signs, billboards, PVC windows, sea, air, land vehicles, construction materials, faucets, shower heads, radars/radomes, building shades, electronics, meteorology and renewable energy systems, floor and wall coverings, white goods, countertops.

\*Contact your customer representative for more.

# OMNIPHOB

Series

# FCC02

## Film Protective Nano Coating

Nasiol FCC02 is flexible film coating for PPF, providing high water repellency and easy-to-clean properties without affecting the characteristics of the underlying protective film.

### APPLICATION OPTIONS

- Manual
- Pressurized Spraying

### CURING OPTIONS

- Room Temperature
- High Temperature

### Surface Gains

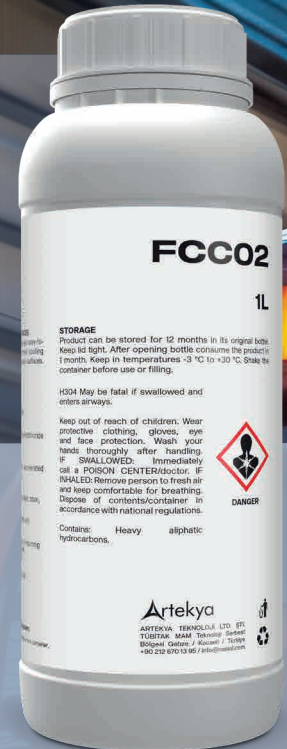
- Transparent nano coating
- Hydrophobicity
- Oleophobicity

### Benefits

- Chemical protection
- Dirt repellency
- Easy clean
- Does not block self-healing
- Visually not detectable

### Benefit Outcomes

- Extends lifetime
- Saves money
- Keeps appearance



Available in 1L /5L/20L Containers

### Technical Specifications

	<b>FCC02</b>
Appearance	Colorless Liquid
Chemical Resistance	12>pH>1
Salt Water Resistance	√
Moisture Resistance	√
Consumption per Unit Area (Manual Application)	2-3 mL/m <sup>2</sup> (1 Layer)
Density @23°C	0.802 g/cm <sup>3</sup>
pH Value	8 - 9
Dry to Touch Time	6h
Application Temperature	5°C-30°C (≤50% RH)
Water Contact Angle	102° @10 µL
Water Contact Angle After "5000" Wet Scrub (ISO-11998:2006)	95° @10 µL
Water Sliding Angle	12-18° @60 µL
Shelf Life	1 year when unopened, 1 month after opening
Durability	Up to 2 Years



**Applicable Surfaces**

PU films, Vinyl films, PVC films.

\*Contact your customer representative for more.

FCCO2

# T Series

## Nano Coating for Textile Surfaces

Nasiol T Series of products are hydrophobic, oleophobic, stain resistant, easy-to-clean that are durable coatings developed for textile surfaces.

### APPLICATION OPTIONS

- Manual
- Pressurized Spraying
- Padding

### CURING OPTIONS

- Room Temperature
- High Temperature

### Surface Gains

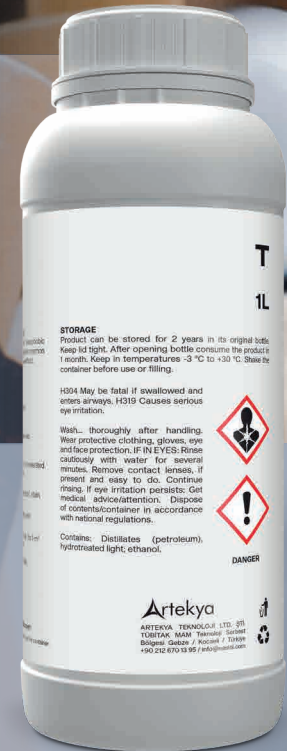
- Transparent and breathable nano coating
- Hydrophobicity
- Oleophobicity

### Benefits

- Chemical protection
- UV protection
- Dirt repellency
- Easy clean
- Liquid repellency

### Benefit Outcomes

- Extends lifetime
- Saves money
- Keeps appearance



Available in 1L /5L/20L Containers

## Technical Specifications

	<b>T</b> Alcohol based	<b>T1</b> Alcohol based	<b>T-PLUS</b> Alcohol based	<b>T-WB</b> Water based
Appearance	Colorless Liquid	Colorless Liquid	Colorless Liquid	Whitish Liquid
Chemical Resistance	11>pH>1	11>pH>1	11>pH>1	11>pH>2
Dry Film Thickness	75-100 nm	75-100 nm	75-100 nm	90-100 nm
Consumption per Unit Area	80-100 mL/m <sup>2</sup>	80-100 mL/m <sup>2</sup>	80-100 mL/m <sup>2</sup>	60-100 mL/m <sup>2</sup>
Density @23°C	0.809 g/cm <sup>3</sup>	0.812 g/cm <sup>3</sup>	0.805 g/cm <sup>3</sup>	1.01 g/cm <sup>3</sup>
pH Value	1.9 - 2.2	1.9 - 2.2	5 - 6	4 - 5
Breathability (EN 1062-1)	Category 1	Category 1	Category 1	Category 1
Application Temperature	5°C/30°C (≤50% RH)	5°C/30°C (≤50% RH)	5°C/30°C (≤50% RH)	5°C/45°C (≤50% RH)
Temperature Durability	110°C	110°C	-	150°C
Water Repellency (ISO-4920)	100/100	100/100	100/100	100/100
Water Contact Angle	144° @10 µL	129° @10 µL	152° @10 µL	152° @20 µL
Water Contact Angle After "2000" Dry Scrub (ISO-11998:2006)	126° @10 µL	122° @10 µL	144° @10 µL	-
Water Contact Angle After "3000" Dry Scrub (ISO-11998:2006)	-	-	-	136° @20 µL
Water Sliding Angle	7° @60 µL	9° @60 µL	18° @60 µL	18° @60 µL
Oil Contact Angle	92° @10 µL	81° @10 µL	136° @10 µL	129° @20 µL
Shelf Life	2 years when unopened 1 month after opening			2 years when unopened 6 months after opening
Durability	Up to 1 year	Up to 9 months	Up to 1 year	Up to 12-15 months

### **Applicable Surfaces**

Woven, non-woven fabrics, carpets, rugs, tablecloths, garden furnitures, awnings, umbrellas, tents, sheets, curtains, armchairs, chairs, sun loungers and cushions, textile surfaces in public spaces (movie theaters, beaches, transportation vehicles), filters, clothings, accessories, ropes, textile parts of wearable electronics, shoes, bags, upholsteries.

\*Contact your customer representative for more.

**T**  
Series

# Z Series

## Nano Coating for Absorbent Mineral Surfaces

Nasiol Z series are hydrophobic, oleophobic, stain resistant industrial nano protection products for mineral surfaces.

### APPLICATION OPTIONS

- Manual
- Pressurized Spraying

### CURING OPTIONS

- Room Temperature
- High Temperature

### Surface Gains

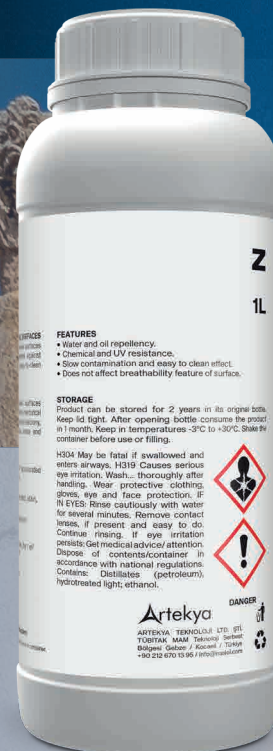
- Transparent and breathable nano coating
- Hydrophobicity
- Oleophobicity

### Benefits

- Chemical protection
- UV protection
- Dirt repellency
- Easy clean

### Benefit Outcomes

- Extends lifetime
- Saves money
- Keeps appearance
- Reduces fungus and darkening



Available in 1L /5L/20L Containers


## Technical Specifications

	<b>Z</b> Alcohol based	<b>Z-WB</b> Water based
Appearance	Colorless Liquid	Hazy Liquid
Chemical Resistance	11>pH>1	11>pH>1
Dry Film Thickness	70-95 nm	90-100 nm
Consumption per Unit Area	40-60 mL/m <sup>2</sup>	60-90 mL/m <sup>2</sup>
Density @23°C	0.809 g/cm <sup>3</sup>	0.99 g/cm <sup>3</sup>
pH Value	1.9 - 2.2	4 - 5
Breathability	√	√
Application Temperature	5°C/30°C (≤50% RH)	5°C/30°C (≤50% RH)
Temperature Durability	325°C	250°C
Water Contact Angle	130° @10 µL	142° @10 µL
Water Sliding Angle	13° @60 µL	10° @60 µL
Oil Contact Angle	85° @10 µL	101° @10 µL
Shelf Life	2 years when unopened 1 month after opening	2 years when unopened 2 months after opening
Durability	Up to 2 years	Up to 3 years

### **Applicable Surfaces**

Absorbent ceramics, natural stones, concrete, roofing tiles, interior/exterior cladding, floor coverings, pool area, terrace ,balcony, roads, parking areas, gas stations, walls, sidewalks, warehouse areas, production areas, city furnitures, historical buildings, artistic structures.

\*Contact your customer representative for more.



**N** Series

# W Series

## Nano Coating for Natural Wooden Surfaces

Nasiol W series are hydrophobic, oleophobic, stain resistant industrial nano protection products for natural wooden surfaces without a varnish or a lacquer layer on them.

### APPLICATION OPTIONS

- Manual
- Pressurized Spraying

### CURING OPTIONS

- Room Temperature
- High Temperature

### Surface Gains

- Transparent and breathable nano coating
- Hydrophobicity
- Oleophobicity

### Benefits

- Chemical protection
- UV protection
- Salty water protection
- Dirt repellency
- Easy clean
- Preventing mold/fungus growth

### Benefit Outcomes

- Extends lifetime
- Saves money
- Keeps appearance
- Reduces fungus



Available in 1L /5L/20L Containers

## Technical Specifications

	<b>W</b> Alcohol based	<b>W-WB</b> Water based
Appearance	Colorless Liquid	Colorless Liquid
Chemical Resistance	11>pH>1	11>pH>1
Dry Film Thickness	60-70 nm	60-70 nm
Consumption per Unit Area	40-60 mL/m <sup>2</sup>	70-100 mL/m <sup>2</sup>
Density @23°C	0.809 g/cm <sup>3</sup>	1.017 g/cm <sup>3</sup>
pH Value	1.9 - 2.2	4 - 5
Breathability	√	√
Application Temperature	5°C/30°C (≤50% RH)	5°C/30°C (≤50% RH)
Temperature Durability	110°C	-
Water Contact Angle (Cotton Wood)	144° @10 μL	153.6° @10 μL
Water Sliding Angle (Cotton Wood)	16° @60 μL	< 1° @60 μL
Oil Contact Angle (Cotton Wood)	90° @10 μL	80.4° @10 μL
Shelf Life	2 years when unopened 1 month after opening	
Durability	Up to 1 year	Up to 5 years

### **Applicable Surfaces**

Fences, railings, garden furnitures, gazebos, street furnitures, wooden houses, decks, verandas, wooden decors, artworks, wall and floor coverings, wood based construction panels.

\*Contact your customer representative for more.

**W**  
Series

# LC12

## Nano Coating for Leather Surfaces

Nasiol LC12 is a hydrophobic, oleophobic, stain resistant, easy-to-clean durable coating developed for natural and artificial leather surface.

### APPLICATION OPTIONS

- Manual
- Pressurized Spraying

### CURING OPTIONS

- Room Temperature
- High Temperature

### Surface Gains

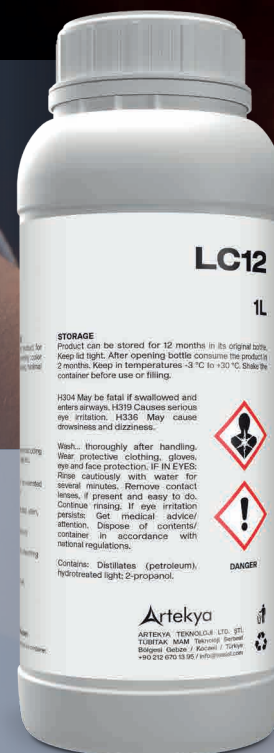
- Transparent and breathable nano coating
- Hydrophobicity
- Oleophobicity

### Benefits

- Chemical protection
- UV protection
- Dirt repellency
- Easy clean
- Anti-friction

### Benefit Outcomes

- Extends lifetime
- Saves money
- Keeps appearance
- Prevents paint transfer
- Provides color retention
- Ensures minimal wear



Available in 1L /5L/20L Containers

## Technical Specifications

	LC12
Appearance	Clear Liquid
Chemical Resistance	12>pH>1
Salt Water Resistance	√
Moisture Resistance	√
Dry Film Thickness	0.7-1 μm
Consumption per Unit Area (Manual Application)	30-45 mL/m <sup>2</sup>
Density @23°C	0.86 g/cm <sup>3</sup>
pH Value	5 - 6
Application Temperature	5°C/30°C (≤50% RH)
Temperature Durability	150°C
Water Contact Angle	135° @10 μL
Water Contact Angle After "3000" Wet Scrub (ISO-11998:2006)	117° @10 μL
Water Sliding Angle	18° @60 μL
Oil Contact Angle	105° @10 μL
Shelf Life	1 year when unopened 2 months after opening
Durability	Up to 1 year

**Applicable Surfaces**

Furniture, clothings, accessories, shoes, air, land, sea vehicle seats.

\*Contact your customer representative for more.

LC12

# MP55

## Anti-Corrosion Nano Coating for Various Surfaces

Nasiol MP55 is a hydrophobic, oleophobic and corrosion resistant durable coating developed for metals and alloys.

### APPLICATION OPTIONS

- Manual
- Pressurized Spraying

### CURING OPTIONS

- Room Temperature
- High Temperature



Available in 1L /5L/20L Containers

### Surface Gains

- Transparent nano coating
- Hydrophobicity
- Oleophobicity
- Corrosion resistance

### Benefits

- Chemical protection
- UV protection
- Dirt repellency
- Easy clean
- Rust resistance

### Benefit Outcomes

- Extends lifetime
- Saves money
- Keeps appearance

## Technical Specifications

	MP55
Appearance	Yellowish Liquid
Chemical Resistance	12>pH>1
Saltwater Resistance	√
Moisture Resistance	√
Dry Film Thickness	600-800 nm
Consumption per Unit Area (Manual Application)	5-8 mL/m <sup>2</sup>
Density @23°C	0.816 g/cm <sup>3</sup>
pH Value	5 - 6
Application Temperature	5°C/30°C (≤50% RH)
Temperature Durability	275°C
Water Contact Angle	106° @10 μL
Water Sliding Angle	12° @60 μL
Oil Contact Angle	89° @10 μL
Shelf Life	1 year when unopened 1 week after opening
Durability	Up to 1 year



**Applicable Surfaces**

Building components, profiles, machine, device parts, furniture components, pipes, production components.

\*Contact your customer representative for more.

MP55

# Anti-GRM

Anti-Graffiti Nano Coating for Various Surfaces

Nasiol Anti-GRM is a transparent nano coating developed to reduce the effects of graffiti application and reduce cleaning time.

## APPLICATION OPTIONS

- Manual
- Pressurized Spraying

## CURING OPTIONS

- Room Temperature
- High Temperature

## Surface Gains

- Transparent nano coating
- Hydrophobicity
- Oleophobicity
- Stain repellency
- Anti-graffiti characteristics

## Benefits

- Chemical protection
- UV protection
- Dirt repellency
- Easy clean

## Benefit Outcomes

- Extends lifetime
- Saves money
- Keeps appearance



Available in 1L /5L/20L Containers

## Technical Specifications

	Anti-GRM
Appearance	Colorless Liquid
Chemical Resistance	12>pH>1
Saltwater Resistance	√
Moisture Resistance	√
Dry Film Thickness	600-700 nm
Consumption per Unit Area (Manual Application)	4-5 mL/m <sup>2</sup>
Density @23°C	0.836 g/cm <sup>3</sup>
pH Value	4.7 - 5.0
Application Temperature	5°C/30°C (≤50% RH)
Temperature Durability	275°C
Water Contact Angle	108° (@10 µL)
Water Sliding Angle	16° (@60 µL)
Oil Contact Angle	88° (@10 µL)
Shelf Life	1 year when unopened 1 week after opening
Durability	Up to 1 year (10 times graffiti cleaning cycles)

**Applicable Surfaces**

Public transportation vehicles, stations, air, land, sea vehicles, solar panels, building exterior surfaces.

\*Contact your customer representative for more.

Anti-GERM

# SHBC

## Superhydrophobic Nano Coating for Various Surfaces

Nasiol SHBC is a superhydrophobic white, opaque, and flexible coating applied as two layers (SHB + SHC) and developed to be applied on multiple surfaces.

### APPLICATION OPTIONS

- Pressurized Spraying

### CURING OPTIONS

- Room Temperature
- High Temperature

### Surface Gains

- Opaque flexible nano coating
- Superhydrophobicity
- Oleophobicity

### Benefits

- UV protection
- Dirt repellency
- Easy clean
- Anti-icing

### Benefit Outcomes

- Extends lifetime
- Saves money
- Reduces fungus and darkening
- Less icing



Available in 1L /5L/20L Containers

## Technical Specifications

	SHBC
Appearance	Whitish liquid
Saltwater Resistance	√
Dry Film Thickness	8-10 µm
Consumption per Unit Area	80-100 mL/m <sup>2</sup>
Breathability (EN 1062-1)	Category 1
pH Value	SHB: 5.0 - 5.3 SHC: 4.7 - 5.0
Application Temperature	5°C/30°C (≤50% RH)
Temperature Durability	175°C
Water Contact Angle	171° @10 µL
Water Sliding Angle	1° @60 µL
Oil Contact Angle	140° @10 µL
Shelf Life	1 year when unopened 1 month after opening
Durability	Up to 2 years without abrasion

**Applicable Surfaces**

Production areas, walls, machine, device parts.

\*Contact your customer representative for more.

**SHBC**

# Anti-VRL

Antiviral and Antibacterial Nano Coating for Various Surfaces

Nasiol Anti-VRL is a hygienic, antimicrobial, antiviral coating that has silane base. One end of the molecule creates a strong bond with the surface of the substrate, forming a highly durable and protective coating.

## APPLICATION OPTIONS

- Manual
- Pressurized Spraying

## CURING OPTIONS

- Room Temperature
- High Temperature

## Surface Gains

- Antiviral
- Antibacterial
- Invisible and breathable nano coating

## Benefits

- Hygiene
- Preserving the natural look

## Benefit Outcomes

- Keeps appearance
- Eliminating the need for disinfection



Available in 1L /5L/20L Containers

## Technical Specifications

	Anti-VRL
Appearance	Yellowish Liquid
Saltwater Resistance	√
Moisture Resistance	√
Consumption (Manual Application)	Fabric: 60-90 mL/m <sup>2</sup> Non-absorbent: 6-10 mL/m <sup>2</sup>
Density @23°C	0,81 g/cm <sup>3</sup>
pH Value	4.7 - 5.0
Dry to Touch Time	6h
Application Temperature	+5°C to +45°C (≤50% RH)
Shelf Life	1 year when unopened 1 week after opening
Durability	Up to 1 year

## Effectiveness

Organism type:	Effectiveness %
E. Coli	99,99
Algae	99,99
Influenza A (H1N1) On fabric	99,9
Coronavirus (Covid-19) On metal	%90 (After 30 days)

### Applicable Surfaces

Door handles, elevator interiors, furnitures, accessories, electronic devices, clothing, public spaces, transportation interiors, schools, hospitals.

\*Contact your customer representative for more.

Anti-VIRL

# TF

## Temporary Film Coating

Nasiol TF creates a water-based transparent film on surfaces and provides temporary protection against scratches caused by sand, stone chips, and tar etc. while ensuring UV resistance property to the surface. It can be applied easily and removed by washing or peeling off.

### APPLICATION OPTIONS

- Manual
- Pressurized Spraying

### CURING OPTIONS

- Room Temperature
- High Temperature



Available in 1L /5L/20L Containers

### Surface Gains

- Temporary protection
- UV resistance

### Benefits

- Easy to remove
- Water-based formula
- Fast and easy application

### Benefit Outcomes

- Extends lifetime
- Saves money

## Technical Specifications

	TF
Appearance	Liquid Gel
Consumption per Unit Area	60-75 mL/m <sup>2</sup>
Dry Film Thickness	15-20 µm
Density @23°C	1.04 g/cm <sup>3</sup>
pH Value	5 - 6
Application Temperature	0°C-60°C (≤50% RH)
Temperature Durability	250°C
Dry-to-Touch Time	20 mins @23°C



### **Applicable Surfaces**

Vehicles, valuables, art pieces, furnitures, machinery.

\*Contact your customer representative for more.



# P45

## Nano Coating for Plastic and Painted Surfaces

Nasiol P45 is a coating material that renews the appearance and restores the color of interior and exterior thermoset & thermoplastic and painted surfaces. It maintains its new appearance for up to 2 years. Thanks to its water-repellent feature, it also helps to keep the surface clean.

### APPLICATION OPTIONS

- Manual
- Pressurized Spraying

### CURING OPTIONS

- Room Temperature
- High Temperature

### Surface Gains

- Ceramic nano coating
- Hydrophobicity

### Benefits

- Chemical protection
- UV protection
- Easy clean
- Dirt repellency
- Renovation

### Benefit Outcomes

- Extends lifetime
- Saves money
- Renews appearance



Available in 1L /5L/20L Containers

## Technical Specifications

	P45
Appearance	Colorless Liquid
Chemical Resistance	12>pH>1
Saltwater Resistance	√
Moisture Resistance	√
Dry Film Thickness	700-1000 nm
Consumption per Unit Area (Manual Application)	5-8 mL/m <sup>2</sup>
Density @23°C	0.86 g/cm <sup>3</sup>
pH Value	5 - 6
Application Temperature	5°C-30°C (≤50% RH)
Temperature Durability	-
Water Contact Angle	115° @10 μL
Water Sliding Angle	20° @60 μL
Oil Contact Angle	34° @10 μL
Gloss Rate @60° (ISO-2813:2014)	80
Shelf Life	1 year when unopened, 1 week after opening
Durability	Up to 2 years

### **Applicable Surfaces**

Stadium seats, vehicle parts, playgrounds, sun loungers, outdoor products, tarpaulins, greenhouses.

\*Contact your customer representative for more.

**P45**

# SolarCoat GC

Nano Coating for Tempered Glass Solar Panels

Nasiol SolarCoat GC is a hydrophobic and oleophobic transparent coating that doesn't change the optical properties of solar panels. It forms an ultra-thin, invisible layer that ensures your panels stay cleaner for a longer period with non-stick properties. It was developed for tempered glass solar panels and suitable for industrial applications.

## APPLICATION OPTIONS

- Manual
- Pressurized Spraying

## CURING OPTIONS

- Room Temperature
- High Temperature



## Surface Gains

- Transparent nano coating
- Hydrophobicity
- Oleophobicity

## Benefits

- Liquid & Dirt repellency
- Easy application
- Easy to clean
- Self-cleaning effect
- Anti-soiling
- Non-stick properties

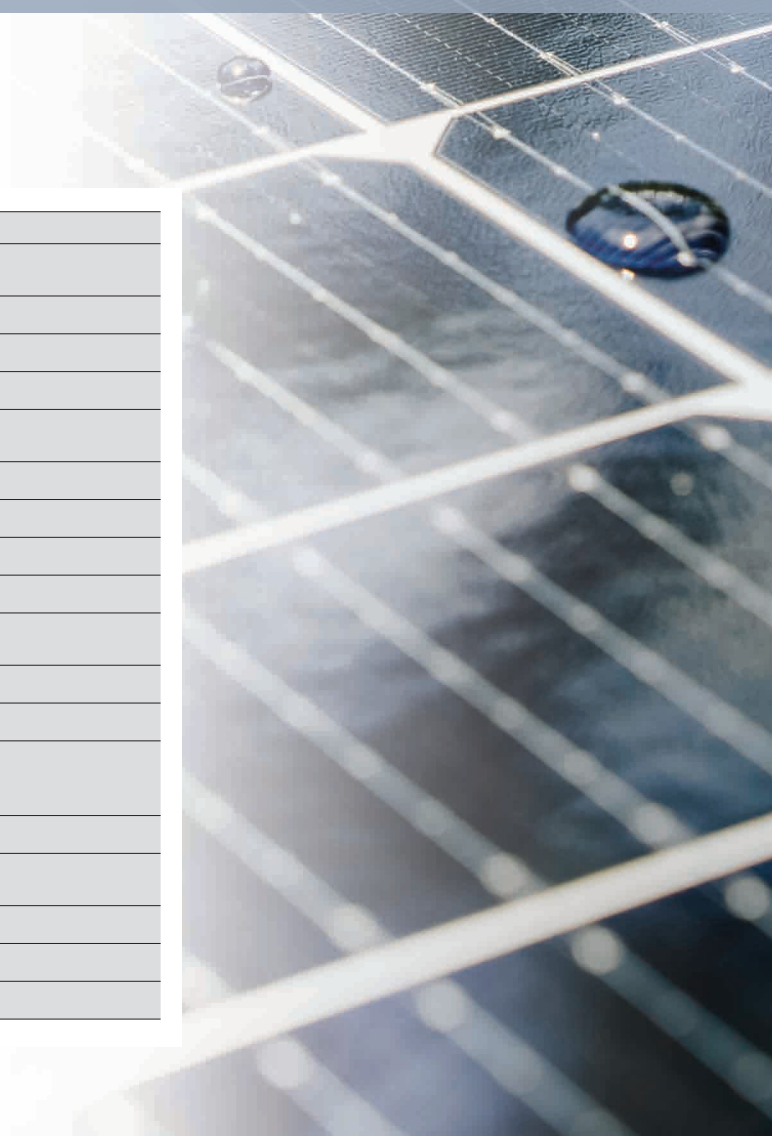
## Benefit Outcomes

- Improves PV efficiency
- Extends panel lifespan
- Keeps appearance
- Saves money and time
- Cuts cleaning and maintenance costs

Available in  
150 mL - 500 mL  
1 L - 5 L - 20 L  
Containers

## Technical Specifications

	SolarCoat GC
Packaging	150-500 mL 1-5-30 L
Appearance	Colorless Liquid
Chemical Resistance	13>pH>1
Dry Film Thickness	100-150 nm
Consumption per Unit Area (Manual Application)	5-6 mL/m <sup>2</sup>
Density @23°C (73.4°F)	0.81 g/cm <sup>3</sup>
pH Value	1.9-2.2
Transparency	99.9%
Light Refractive Index	1.625 (Glass)
Application Temperature	5°C-30°C / 41°F- 86°F (≤50% RH)
Temperature Durability	250°C / 482°F
Water Contact Angle	107° @10 μL
Water Contact Angle After "3000" Wet Scrub (ISO-11998:2006)	103° @10 μL
Water Sliding Angle	15° @60 μL
Oil Contact Angle (n-hexadecane)	85° ±3 @10 μL
REACH Compliance	Yes
Durability	3 years
Shelf Life	24 months



# SOLAR COAT GC



# SolarCoat FC

Nano Coating for All Glass and Other Solar Panels

Nasiol SolarCoat FC is a hydrophobic and oleophobic transparent coating that doesn't change the optical properties of solar panels. It forms an ultra-thin, invisible layer that ensures your panels stay cleaner for a longer period with non-stick properties. It was developed for glass, thin-film flexible or other polymer solar panels and perfect choice for end-users.

## APPLICATION OPTIONS

- Manual

## CURING OPTIONS

- Room Temperature
- High Temperature



## Surface Gains

- Transparent nano coating
- Hydrophobicity
- Oleophobicity

## Benefits

- Liquid & Dirt repellency
- Easy application
- Easy to clean
- Self-cleaning effect
- Anti-soiling
- Non-stick properties

## Benefit Outcomes

- Improves PV efficiency
- Extends panel lifespan
- Keeps appearance
- Saves money and time
- Cuts cleaning and maintenance costs

Available in  
150 mL - 500 mL  
1 L - 5 L - 20 L  
Containers

## Technical Specifications

	SolarCoat FC
Packaging	150-500 mL 1-5-30 L
Appearance	Colorless Liquid
Chemical Resistance	12>pH>1
Dry Film Thickness	200-250 nm
Consumption per Unit Area	5-6 mL/m <sup>2</sup>
Density @23°C (73.4°F)	0.80 g/cm <sup>3</sup>
pH Value	4.7-5.0
Application Temperature	5°C-30°C / 41°F- 86°F (≤50% RH)
Temperature Durability	250°C / 482°F
Water Contact Angle	105° @10 µL
Water Contact Angle After "3000" Wet Scrub (ISO-11998:2006)	97° @10 µL
Water Sliding Angle	13° @60 µL
Oil Contact Angle (n-hexadecane)	75° ±3 @10 µL
REACH Compliance	Yes
Durability	3 years
Shelf Life	12 months



# SOLAR COAT FC



# SolarRinse

Cleaning Detergent for Solar Panels

Nasiol SolarRinse is a cleaning solution/detergent designed to remove dirt, grime, and other contaminants from all solar panel types, enhancing their performance and efficiency. It is used to wash photovoltaic solar panels and its quick action makes it easy to clean all kinds of dirt. It is suitable for all residential, commercial, industrial solar panels.

SolarRinse can be used with cleaning robots or manual cleaning tools.



Available in  
500 mL - 5 L - 20 L  
Containers

## Benefits

- Ready to use
- Safe product
- Easy application
- No water spots/stains
- Suitable for all solar panels

## Benefit Outcomes

- Removes all heavy dirt/contamination
- Provides easy and fast cleaning
- No need for dilution
- Improves PV efficiency

## Technical Specifications

	<b>SolarRinse</b>
Packaging	500 mL - 5L-30L
Appearance	Off-White- Translucent
Density @23°C (73.4°F)	1.03 g/cm <sup>3</sup>
pH Value	2.5-3.5
Application Temperature	5°C-30°C / 41°F- 86°F (≤50% RH)
Shelf Life	24 months

# SOLAR RINSE



# SolarClean

The Ultimate Pre-Cleaner for Solar Panels

Nasiol SolarClean is a powerful alcohol-based surface pre-cleaner designed specifically to prepare your solar panels for the application of protective nano coatings. It is essential for optimal performance and longevity of the panels. It is suitable for all residential, commercial, industrial solar panels.

## Benefits

- Fast-drying formula
- Safe product
- Easy application
- Ammonia-free
- Suitable for all solar panels

## Benefit Outcomes

- Increases nano coating performance
- Provides complete cleaning
- Improves PV efficiency



Available in  
500 mL - 5 L - 20 L  
Containers

## Technical Specifications

	<b>SolarClean</b>
Packaging	500 mL - 5L-30L
Appearance	Colorless Liquid
Density @23°C (73.4°F)	0.79 g/cm <sup>3</sup>
pH Value	5.0-5.5
Application Temperature	5°C-30°C / 41°F- 86°F
Shelf Life	24 months





**SOLEAR  
SOLEAN**



SURFACE TYPES												
Glass	Ceramic	Plastic	Metal	Painted Surface	Textile, Suede, Nubuck	Absorbent Mineral	Natural Wooden	Leather	Paint Protection Film	Solar Panel		
✓	✓	-	-	-	-	-	-	-	-	-	C	C SERIES
✓	✓	-	-	-	-	-	-	-	-	-	C1	
-	-	✓	✓	✓	-	-	-	-	-	-	M59	OMNIPHOB SERIES
-	-	✓	✓	✓	-	-	-	-	-	-	M39	
-	-	✓	✓	✓	-	-	-	-	-	-	M17	
-	-	✓	✓	✓	-	-	-	-	-	-	M07	
-	-	✓	✓	✓	-	-	-	-	-	-	M06	
-	-	✓	✓	✓	-	-	-	-	-	-	MG09	
-	-	✓	-	-	-	-	-	-	✓	-	FCC02	
-	-	-	-	-	✓	-	-	-	-	-	T	T SERIES
-	-	-	-	-	✓	-	-	-	-	-	T1	
-	-	-	-	-	✓	-	-	-	-	-	T-PLUS	
-	-	-	-	-	✓	-	-	-	-	-	T-WB	
-	-	-	-	-	-	✓	-	-	-	-	Z	Z SERIES
-	-	-	-	-	-	✓	-	-	-	-	Z-WB	
-	-	-	-	-	-	-	✓	-	-	-	W	W SERIES
-	-	-	-	-	-	-	✓	-	-	-	W-WB	
-	-	-	-	-	-	-	-	✓	-	-	LC12	
-	-	-	✓	-	-	-	-	-	-	-	MP55	
✓	✓	✓	✓	✓	-	-	-	-	-	-	Anti-GRM	
✓	✓	✓	✓	✓	-	✓	✓	-	-	-	SHBC	
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	Anti-VRL	
✓	✓	✓	✓	✓	-	-	-	-	✓	-	TF	
-	-	✓	-	✓	-	-	-	-	-	-	P45	
-	-	-	-	-	-	-	-	-	-	✓	SolarCoat GC	SOLAR SERIES
-	-	-	-	-	-	-	-	-	-	✓	SolarCoat FC	
-	-	-	-	-	-	-	-	-	-	✓	SolarRinse	
-	-	-	-	-	-	-	-	-	-	✓	SolarClean	



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