NITOGUARD® GLASS SC

Innovative nano-coating with self-cleaning properties

Product description
Nitoguard® Glass SC is an innovative nano-coating based on titanium dioxide (TiO2).
Nitoguard® Glass SC forms a permanent protective layer without changing the appearance of the surface.
Nitoguard® Glass SC forms a hydrophilic film that is only a few nanometres thin. The hydrophilicity of the coating is generated by a photocatalytic process in the presence of natural sunlight. The surface tension of the surface is increased above the air/water value, causing condensed water to fully spread over the surface.
Nitoguard® Glass SC is therefore self-cleaning in its entirety in locations where there is periodic rainfall (>2-3 times a year) or where regular cleaning with water is used.
Nitoguard® Glass SC lowers the cleaning costs of solar panels and in the long term delivers a 5% increase in efficiency.

The Nitoguard® products consists of a collection of high-quality coatings for several different surfaces. The use of high-quality raw materials based on fluorine or nanotechnology makes it possible to obtain long-lasting and extreme water-, grease- and dirt-repellent properties. Because every material is different, the Nitoguard® product line has a solution for every type of material.

Use
Nitoguard® Glass SC can be applied on glass and other hard and smooth surfaces such as glazed tiles and ceramics.
Nitoguard® Glass SC is widely used on for example agricultural greenhouses and solar panels.

Characteristics
- Invisible to the human eye
- Self-cleaning
- Easy in use

Technical data

Odour:	Alcohol
Colour:	Transparent
Specific weight:	0,95 kg/L
pH:	~ 7
Contains:	Ethanol

Application conditions
Nitoguard® Glass SC can be applied in all dry weather conditions.

Instructions
1. Ensure the surface is completely clean, dry and free from dust. Clean the surface beforehand on the basis of the contamination that are present on the glass:
2. Lime residues: Abrasive of 20% w/w Cerium (IV) oxide in water or Glassrenovator, followed by a second cleaning with Isopropanol.
3. Silicone and soap residues: Silicone Remover and Uniclean.
4. Industrial contaminants: Abrasive Cerium (IV) oxide, followed by a second cleaning with Isopropanol. Rinse thoroughly with water. Let the substrate dry completely.
5. Apply Nitoguard® Glass SC on a clean lint-free microfiber cloth and apply the product with a polishing movement on the surface until the product is invisible.
6. Nitoguard® Glass SC can be applied on large surface with the aid of a low pressure spray or a spray bottle. Contact our technical advisors for advice.
7. If it is desired to remove Nitoguard® Glass from the surface, this can be done with an abrasive of Cerium (IV) oxide.

Drying

Dry and water resistant:	approx. 2 - 4 hours
Fully cured:	after approx. 72 hours

Packaging
1 L

Consumption
10 - 25 ml / m2

Practical information
- Do not apply in direct sunlight or hot surfaces
- The self-cleaning property is active after 6-10 weeks
- Clean coated surfaces with water without mechanical pressure

Storage
Can be kept for at least 12 months in original unopened packaging. Store in a well-ventilated, dry, cool and frost-free place.

Health and safety
Nitoguard® Glass SC contains nano-particles. Avoid skin and eye contact, wear suitable gloves, long clothes and safety glasses. Avoid inhalation of the product, especially during spray application. Wear suitable respiratory protection. If in doubt, always consult the safety data sheet or our R&D department.

Technical support
Mavro is ISO 9001 certified: your guarantee of quality, in terms of products and advice. Our technical consultants and R&D department are always at your service. We are happy to look at your problem or wish with you. Help you with our products or find a solution if it does not yet exist. Call, e-mail or drop by.

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