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Product information: Tecnadis SELFCLEAN ULTRA

Nanotechnology-based superhydrophilic product for protecting both indoor and outdoor glass surfaces

DESCRIPTION

- Superhydrophilic product based on nanotechnology which creates self-cleaning surfaces in outdoor and indoor glasses.
- Additional anti-dust properties.
- It facilitates and reduces radically the maintenance and cleaning tasks of glazed surfaces.
- It protects surfaces from dirt stains, preventing its accumulation, thanks to the treatment action which facilitates the formation of a thin layer of water instead of the formation of water drops and the disappearance of the residues.
- It transforms any glass surface into a self-cleaning product, reducing radically the maintenance and cleaning costs and also helping to decrease the consumption of water, energy, chemical products and staff.

ADVANTAGES

- **It keeps glass surfaces clean** for a longer time, reducing the cleaning costs of them in ranges higher than 50%.
- After application, the coating results **totally transparent**, not modifying the aesthetic conditions of the glass and even improving the visibility through it after rainy conditions.
- Having **total** resistance to UV radiation as well as a **high** resistance to atmospheric agents, the average **durability** of the treatment is 3 years around.
- Product **very easy to apply**. Applicable in glasses already installed and in continuous production facilities.
- It has excellent features and a **high performance** (up to 25 m²/Liter, depending on the application method).
- It is **not based in TiO₂ technology**, therefore this coating **does not depend on the sun**.

COMPOSITION

Product based on a nanoparticles dispersion and other active agents.

APPLICATIONS

- All types of exterior glass surfaces (windows, building glass, solar panels and vitrified ceramics among others) exposed to the water/rain action, as well as interior glass surfaces exposed to bath and shower water action.
- Specially designed to be applied by surface treatment in static glasses as generator of self-cleaning surfaces.

PHYSICO-CHEMICAL PROPERTIES

- | | |
|----------------------------------|-----------------------------------|
| • Colour | whitish transparent / translucent |
| • Active ingredients | <5% wt |
| • Volatile Organic Content (VOC) | >85% wt |
| • Density | 0,81 g/ml |
| • Viscosity: | 1,2 cP |
| • Boiling Point | 78,4 °C |
| • Flash Point | ≤16,6 °C |
| • Solvent | Alcohol |

HOW TO USE

SUPPORT PREPARATION

- The Surface to be treated with Tecnadis SELFCLEAN ULTRA must be clean and completely dry before application. For this, all types of conventional cleaners can be used depending on the degree of dirtiness of the glass to be treated. Remove traces of detergents and cleaners before the application.

SHAKE CONTAINER BEFORE USE

APPLICATION

Use a pressure atomization gun based on suction, or gravity, which allows to work continuously.

- Apply a single layer of product evenly through the glass, avoiding, as far as possible, excesses and accumulations.
 - Dilution: none
 - Approximate performance: Between 25 m²/Liter depending on the application method.

VERIFICATION

- If it is desired to VERIFY that the application has been homogeneous and with total coverage, 1 hour after the application it is possible to throw water directly over the treated surface and check the formation of the thin layer of water over the glass. In case of being observed the appearance of drops in any area, remove them carefully with a cloth and isopropanol and treat again making a new application in those mentioned areas where it has not been applied enough product.

APPLICATION EQUIPMENT

- Suction or gravity pressure atomization gun
- Compressed air

WORKING CONDITIONS

- Working pressure: 6 bar
- Application distance: ~ 15 - 20 cm (between the gun nozzle and the surface)
- Spray beam width: ~ 4 cm
- Spray beam height: ~ 10 - 14 cm

Specifications for the product:

- Apply over the surface clean and completely dry. Avoid extreme humidity conditions during application.
- The effect of the product is basically immediate, 1 hour after the application, reaching its maximum binding properties to the glass after 24 hours. Do not expose the treated surface to abrasion or intensive cleaning before the mentioned period.

HANDLING PRECAUTIONS

The product safety information necessary for its safe use is not included in this document. Before using this product, read the material safety data sheets and the container labels for safe use and for information on physical and health hazards. The material safety data sheets are available and are supplied by TECNAN S.L. The application of the product must be carried out in a well-ventilated place. It contains organic solvents and alcohol.

LIFE AND STORAGE

When stored in the original sealed containers at temperatures between 5°C and 30°C, the product has a shelf life of 12 months from the date of manufacture. Avoid exposure to direct sunlight and keep away from heat and open flames and avoid freezing. The material contained may settle slowly, so it is recommended an adequate agitation before use.

LIMITATIONS

It is recommended to apply the product at temperatures between 5°C and 30°C.

This product is not suitable for medical or pharmaceutical uses.

Limited warranty information. - Please read carefully

The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should be used properly, in preliminary tests to verify that the product is suitable for its intended use. Suggestions of use shall not be taken as inducements to infringe any particular patent. The only guarantee of TECNAN S.L. is that the product will meet the sales specifications in effect at the time of shipment. Your exclusive remedy for breach of this warranty is limited to the purchase price or replacement of any product that is not warranted. TECNAN S.L. specifically disclaims any express or implied warranty of fitness for a particular purpose or marketing. TECNAN S.L. disclaims responsibility for any damage caused accidentally.