

## TECNADIS SELF CLEAN ULTRA

Nanotechnology-based super hydrophilic protector for interior and exterior glass surfaces

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| <b>Product Description</b>                                              | Super hydrophilic surface treatment based on nanotechnology, which creates self-cleaning surfaces on exterior and interior glass. Additional anti-dust property (reduces adhesion). It facilitates and radically reduces maintenance and cleaning of glass surfaces, reducing water consumption, energy, chemicals and staff costs. It protects surfaces from dirt stains, preventing their accumulation, thanks to the action of the treatment that facilitates the formation of a thin layer of water instead of the formation of water droplets and the disappearance of the residues.                                                                                                                                                                                                                                                                                                                                                     |
| <b>Uses</b>                                                             | <ul style="list-style-type: none"> <li>▪ Specially designed to be applied by surface treatment on static glass, thus generating self-cleaning surfaces.</li> <li>▪ For all types of exterior glass surfaces (windows, architectural glass, solar panels and vitrified ceramics among others) exposed to the action of water/rain, as well as for interior glass surfaces exposed to bath and shower water action.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Features and advantages</b>                                          | <ul style="list-style-type: none"> <li>▪ <b>It keeps glass surfaces clean for longer</b>, reducing the cleaning costs by over 50%.</li> <li>▪ After application, the coating is <b>completely transparent</b>, without modifying the aesthetic condition of the glass and even improving visibility through the glass after rainy conditions.</li> <li>▪ Having a <b>total resistance to UV radiation</b>, as well as a high resistance to atmospheric agents, the average durability of the treatment is around 3 years.</li> <li>▪ <b>The treatment can be applied by hand or by airless spray gun</b>, on glass already installed or in continuous production facilities.</li> <li>▪ It has <b>excellent features and a high performance</b> (25-30 m<sup>2</sup>/L, depending on the application method).</li> <li>▪ It is not based on TiO<sub>2</sub> technology; therefore, this coating <b>does not depend on the sun</b>.</li> </ul> |
| <b>Product information. Composition and Physicochemical properties.</b> | <ul style="list-style-type: none"> <li>▪ <b>Colour:</b> Whitish transparent / translucent</li> <li>▪ <b>Packaging:</b> 1L, 5L and 25L (larger volumes on request).</li> <li>▪ <b>Storage:</b> 12 months from the date of manufacture in the original sealed containers at temperatures between 5°C and 30°C.</li> <li>▪ <b>Active ingredients:</b> &lt;5% wt</li> <li>▪ <b>Volatile Organic Content (VOC):</b> &gt;85% wt</li> <li>▪ <b>Boiling Point:</b> 78°C</li> <li>▪ <b>Flash point:</b> ≤16,6°C</li> <li>▪ <b>Density:</b> 0,81 g/ml</li> <li>▪ <b>Viscosity:</b> 1,2 cP</li> <li>▪ <b>Solvent:</b> Ethanol</li> </ul>                                                                                                                                                                                                                                                                                                                 |
| <b>Surface preparation</b>                                              | Before application, carefully clean the surfaces and remove all traces of detergents and cleaners. The surface must be completely clean. A polisher can/should be used to polish the entire glazed surface to be treated.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Application information</b>                                          | <p><b>SURFACE PREPARATION</b></p> <ul style="list-style-type: none"> <li>▪ The surface to be treated with Tecnadis SELF CLEAN ULTRA must be completely clean and dry.</li> <li>▪ For this purpose, it is recommended to use a glass polishing product, either manually or with a rotary polisher. TECNAN recommends the use of TECNADIS POLISHIELD (TECNAN's glass polishing product) to completely remove from the glass any lime stains, dirt or traces of detergents or possible previous surface treatments. After the</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                         |

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polishing product has been applied, the glass should be rinsed with water to remove any remains.

- Once the surface has been cleaned, check that has been carried out correctly: pour water over the glass, letting the water fall; if a curtain of water is created, so the desired dragging effect is achieved, leaving the glass clean without droplets and water.

**The appearance of this effect means that the cleaning has been successfully completed!**

- Afterwards, dry the glass with the help of a cloth or even with alcohol.

Once the glass is dry, TECNADIS SELF CLEAN ULTRA can be applied in two different ways: **manually or with a spray gun.**

### MANUALLY

- SHAKE THE CONTAINER VIGOROUSLY BEFORE USE.
- The application of TECNADIS SELF CLEAN ULTRA manually can be carried out in two ways:
  - USING A CLOTH IN CIRCULAR MOVEMENTS:** If the glass to be treated is large or semi-large, it is recommended to work in zones; first work on one zone, spray and go over it, and then move on to another zone. As for spraying TECNADIS SELF CLEAN ULTRA, this should cover as large an area as possible. Once the area is covered, spread the product in circular movements along the glass with a cloth that leaves no residues (lint, dust, etc.) until the product is completely and evenly spread without leaving any traces.
  - USING A WINDOW CLEANING SQUEEGEE WITH CLOTH:** For this, wet the cloth (microfibre) with TECNADIS SELF CLEAN ULTRA and spread the product evenly without leaving a trace.

### BY SPRAY GUN

- SHAKE THE CONTAINER VIGOROUSLY BEFORE USE.
- Apply the product homogeneously on the surface by means of an airless spray gun, either in one layer of a higher quantity or in 2 thinner layers. For more detailed information TECNAN "How to use" document is available and is supplied by TECNAN.

In both cases (manually and by spray gun), these are the recommendations to be followed:

- For a glass placed on the outside,** allow to dry for one hour before applying direct water to test the effect.
- For indoor glass,** allow to dry for half an hour before applying direct water to test the effect.

### Yields and storage

- Dilution: none
- Average yield (for guidance only): 25-30 m<sup>2</sup>/l. Always apply the required amount of product, which will depend on the characteristics of the glass. It is recommended to carry out a preliminary test before application in order to determine the proper yield in each case.
- Full drying time: The glass will show a hydrophilic effect immediately after application, achieving an optimal effect after 24 hours.
- Operating temperature: between 5°C and 30°C.
- Storage temperature: between 5°C and 30°C; protect from direct sunlight; store tightly closed in the original container.

### Observations

- It is recommended to apply the product at temperatures between 5°C and 30°C.
- This product is not suitable for medical or pharmaceutical use.

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### 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. The application of the product must be carried out in a well-ventilated place. It contains volatile solvent (ethanol).

### Limited warranty information

#### Please read it carefully:

The information and recommendations in this document are given in good faith on the basis of TECNAN's experience and knowledge when stored, handled and applied correctly and under normal conditions within its useful life. However, because the conditions, types of materials to be treated and methods of use of our products are beyond our control, this information must be used correctly, verifying in preliminary tests that the product, the performance to be applied, the aesthetic finish and its purpose are suitable, even if other recommendations or advice have been received. TECNAN reserves the right to modify the properties of the product. TECNAN's only guarantee is that the product will comply with the sales specifications in force at the time of dispatch. Confirmation of payment and/or order implies acceptance of the product properties by the customer. TECNAN only guarantees the replacement of the product in the event of a manufacturing defect, and declines any other type of responsibility for the product, its application, as well as any additional damage it may cause. TECNAN specifically disclaims any other express or implied warranty of fitness for a particular purpose or merchantability. TECNAN declines responsibility for any damage caused accidentally or in case of incorrect use. Users must be familiar with the latest updated version of the Technical Data Sheet and for that TECNAN will provide a copy on request.