

## TECNADIS SELF CLEAN ULTRA

Superhydrophilic product based on nanotechnology for protecting indoor and outdoor glass surfaces

<b>Product Description</b>	<p>Superhydrophilic surface treatment based on nanotechnology which creates self-cleaning surfaces in outdoor and indoor glasses. Additional anti-dust properties (reduces its adhesion). It facilitates and reduces radically the maintenance and cleaning tasks of glazed surfaces, reducing the consumption of water, energy, chemical products and staff costs. 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.</p>
<b>Applications</b>	<ul style="list-style-type: none"> <li>▪ Specially designed to be applied by surface treatment in static glasses, thus generating self-cleaning surfaces.</li> <li>▪ All types of outdoor glass surfaces (windows, building glass, solar panels and vitrified ceramics among others) exposed to the water/rain action, as well as indoor 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 a longer time</b>, reducing the cleaning costs of them in ranges higher than 50%.</li> <li>▪ After application, the coating results <b>totally transparent</b>, not modifying the aesthetic conditions of the glass and also improving the visibility through it after rainy conditions.</li> <li>▪ Having <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>Applicable treatment by hand and by airless gun</b>, in 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 the technology of TiO<sub>2</sub>, therefore this coating <b>does not depend on the sun</b>.</li> </ul>
<b>Product information. Composition and Physico-chemical properties.</b>	<ul style="list-style-type: none"> <li>▪ <b>Colour:</b> Whitish transparent / translucent</li> <li>▪ <b>Format:</b> 1L, 5L and 25L (higher volumes on demand).</li> <li>▪ <b>Storage:</b> 12 months from its date of manufacture in their original airtight containers at temperatures between 5°C y 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>Ignition 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>	<p>Before application, carefully clean the surfaces and remove detergents residues and cleaners. The surface must be completely clean. A polisher can/should be used to polish the entire glazed surface to be treated.</p>

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### How to use

#### SURFACE PREPARATION

- The surface to be treated with Tecnadis SELFCLEAN ULTRA must be completely clean and dry.
- For this purpose, it is recommended to use a glass polisher product, manually or by rotary polisher. From TECNAN, it is recommended the use of TECNADIS POLISHIELD (polishing product of TECNAN), to completely remove from the glass any lime stains, dirt or detergent residues as well as possible previous surface treatments. Once the polisher is applied, the glass should be rinsed with water to remove the traces of the polish.
- Once the support is cleaned, check that the cleaning has been carried out correctly: apply water, dropping the water on the glass; if a curtain of water is created, that is the desired effect (drag effect), which leaves the glass clean of drops 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 SELFCLEAN ULTRA can be applied in two different ways: **manually or by spray gun.**

#### MANUALLY

- SHAKE THE PACKAGE VIGOROUSLY BEFORE USING IT.
- The application of TECNADIS SELFCLEAN ULTRA manually can be carried out in two ways:
  1. **WITH THE HELP OF A CLOTH (BY CIRCULAR MOVEMENTS):** If the glass to be treated is large or semi-large, it is recommended to work by small zones; first work an small area spraying and spreading it and then move to another area. Regarding the spraying of TECNADIS SELFCLEAN ULTRA, the sprayed product must cover as much area as possible. Once the area is covered, spread the product along the glass with a cloth that doesn't leave any residues (hairs, dust, etc.) by circular movements until the product is homogeneously extended.
  2. **WITH THE HELP OF A MICROFIBRE WINDOW CLEANING APPLICATOR:** For this, wet the microfibre in TECNADIS SELFCLEAN ULTRA and extend the product homogeneously without leaving any trace.

#### BY SPRAY GUN

- SHAKE THE PACKAGE VIGOROUSLY BEFORE USING IT.
- By spray gun (type Airless- paint gun), apply the product on the surface homogeneously either in a higher quantity layer or in 2 thinner layers. 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 a glass placed inside**, allow to dry for half an hour before applying direct water to test the effect.

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<p><b>Yields and storage</b></p>	<ul style="list-style-type: none"> <li>▪ Dilution: none</li> <li>▪ Approximate average yield: 25-30 m<sup>2</sup>/l.</li> <li>▪ Full drying time: the effect of the product is basically immediate, 30-60 minutes 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.</li> <li>▪ Application temperature: between 5°C and 30°C.</li> <li>▪ Storage temperature: between 5°C and 30°C; protect from direct sunlight; store tightly closed in the original container.</li> </ul>
<p><b>Observations</b></p>	<ul style="list-style-type: none"> <li>▪ It is recommended to apply the product at temperatures between 5°C and 30°C (optimum range).</li> <li>▪ This product is not suitable for medical or pharmaceutical uses.</li> </ul>
<p><b>Handling precautions</b></p>	<p>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 volatile solvent (ethanol).</p>
<p><b>Limited warranty information</b></p>	<p><b>Limited warranty information – Please read carefully:</b></p> <p>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 not be used in substitution for customer's tests to ensure that Tecnan's products are safe, effective, and fully satisfactory for the intended end use. Suggestions of use shall not be taken as inducements to infringe any patent. Tecnan's sole warranty is that the product will meet the Tecnan specifications in effect at the time of shipment. Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted.</p> <p>Tecnan specifically disclaims any other express or implied warranty of fitness for a particular purpose or merchantability. Tecnan disclaims liability for any incidental or consequential damages.</p>