

Description of the TECNADIS SELFCLEAN PV application procedure:

✚ SURFACE PREPARATION

Preparation of the surface to be protected.

- The surface must be clean before application. Pay particular attention that there is no dust or solid particles of any kind on the surface.



Example of extreme dirtiness compared to clean module



Light dirt



Clean module vs. lightly dirty module

- For this cleaning, it can be used either water and a brushing of the surface (by manual means), or the use of a hydro cleaner with pressurised water (TECNAN recommendation), in case of persistent dirt, it is recommended to use soap and a rinsing with pressurised water until the module is clean.



- Once the modules have been cleaned, let them dry and remove the water from the areas where it can be retained (lower edges of the module). ***It is very important that the module is completely dry before applying TECNADIS SELFCLEAN PV.***
- It is not necessary to protect enclosures, or metal structural elements, glass or plastic (skylights or windows), or the envelope itself. The product is not filmogenic and therefore does not leave marks.

APPLICATION PROCESS:

The product can be applied by spray gun or by hand. The container should be shaken vigorously before use.

SPRAY GUN

The product is applied directly to the surface to be treated, air-driven paint spray gun (compressor or compressed air line required) or with an airless system. These systems are the most economically and productively efficient as they achieve a correct distribution, as well as a quick application on large surfaces. We recommend systems with adjustable flow rate and without pressure.



Airbrush application gun (compressed air line required)



Airless system

MINIMUM REQUIREMENTS

- Regulation of spray fan, inlet pressure and flow rate.
- Line pressure, minimum 2 bar with gun open.
- 0.5L tank.
- Flat spray fan.
- Place pressure gauge at gun inlet to check working pressure.
- Install a water filter preceding the gun to reduce the amount of water in the compressed air as much as possible.
- If portable compressors are used, a minimum flow rate of 3 l/sec is recommended.

MINIMUM REQUIREMENTS

- Working pressure of 200 bar.
- Nozzle with the narrowest possible gap.
- Flat spray fan.

Ensure that the application does not cause dripping on the material as this would imply the use of an excess of product; it is not necessary to completely saturate the surface, it is preferable to apply two light applications rather than one heavy application (saturation).

Point out that the correct application of the product must be perfectly checked by the final applicator, in a sacrifice zone and with the selected tool, in order to verify the absorption of the substrate.

Graphic description:

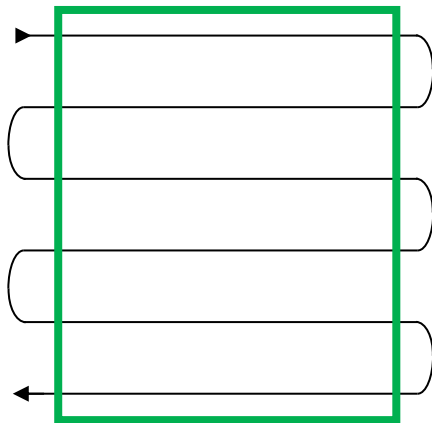


Figure 1

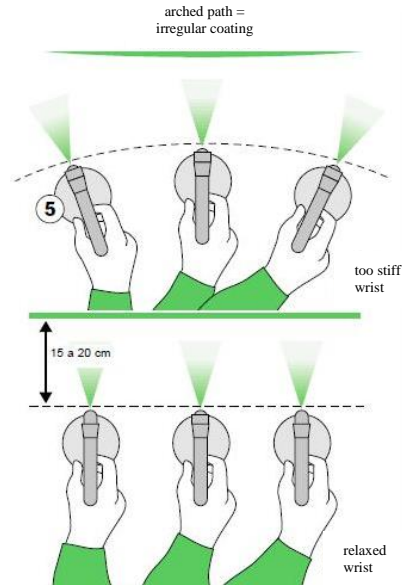


Figure 2

Carry out the application as shown in **Figure 1**.

Important to follow the indications in **Figure 2**: always apply the product at the same distance. The speed of movement of the applicator arm is very important to set from the beginning, for this it is recommended to mark a test area of approximately 1m² and simulate the application until the correct dosage is achieved (25-30 m²/L).

It is recommended to apply the modules one by one to ensure the correct dosage of product in them. In the same way, after the application of the first module, check that the dosage is correct (multiplying the treated surface by the TECNAN recommended yield).

MANUAL:

If the glass to be treated is large or medium sized, it is recommended to work in zones, first work on one zone, spray and wipe over, and then move on to another zone. Regarding spraying with TECNADIS SELF CLEAN PV, such spraying should cover an area as large as possible. Once the area is covered, use circular movements to spread the product along the glass, with a cloth that leaves no residue (hairs, dust, etc.) until the product is completely spread, homogeneously without leaving any traces, and the glass is transparent.

Keep the application area well ventilated, but without draughts, thus avoiding high concentration of gases from the evaporation of the organic carrier of the product (solvent).

As protective measures, the same as for any paint are recommended: work clothes, gloves and a simple gas mask. (For further information see Material Safety Data Sheet).

Considerations to take into account:

- Shake container before use.
- Dilution: none
- Amount per application (dosage): 25-30 m²/L
- Drying time: Dry to touch 10 minutes, full curing 24 hours.
- Application conditions: between 5 and 30 °C, with dry weather, avoid wetting of the applied modules within 1-2 hours after application.
- Storage conditions: between 5 and 30°C; protect from direct sunlight; store in original packaging.
- Cleaning solvent: Ethanol.

It is important to keep the equipment in a correct state of maintenance of the nozzles, avoiding that they become saturated or clogged (always clean after an application).

Ask TECNAN for more information and videos with examples of real applications.