

RECOMMENDATIONS FOR CLEANING, PROTECTION
AND MAINTENANCE WITH TECNAN PRODUCTS FOR
PIEDRA PALOMA

Think Big, Act Nano





PIEDRA PALOMA

CLEANING

After laying the materials, it is necessary to carefully clean the surface to avoid the presence of loose or suspended material (soil, mortar residue, dust, etc.). This step is essential to remove any residue produced on site, as before applying TECNAN products the surface to be protected must be completely clean and preferably dry.

The following steps are recommended for proper cleaning:

1. Dry cleaning with a broom, blower or vacuum cleaner to remove surface residues: dust, debris and other dirt.
2. Afterwards, it is advisable to clean with water. According to the working environment, a pressure washer or similar can be used for outdoors and other methods for indoors. Depending on the amount of dirt, it is also possible to use a conventional cleaner or detergent. In the case of heavy dirt, it is possible to scrub gently with a soft brush. Then, it is important to rinse thoroughly with plenty of water to remove all traces of dirt and cleaner, if used.
3. If after these steps, there is still stubborn dirt, the process can be repeated before applying the protective solution.

PROTECTION

Once the final cleaning has been carried out, it is essential to protect the materials with the most suitable TECNAN product, depending on the type of protection sought. All TECNAN protectors for porous material, which are detailed below, comply with the following features:

- They reduce water absorption and **delay the ageing and degradation of substrates, slowing down the appearance of stains and pathologies caused by humidity** (algae, moss, mould, etc.).
- They do not form a film, they do not seal, the microporosity of the substrate remains unaltered, they do not change the slipperiness and **allow for the breathability of the materials**.
- Based on **nanoparticles**, which enhance the surface effects: hydrophobicity.
- **High resistance and durability** to rain, up to 10 years on vertical surfaces that are not subjected to continuous abrasion.
- No polymerisation reactions, catalysis, etc. **No chemical degradation over time** due to its inorganic composition. No yellowing.
- Fully **UV-resistant**.
- **Colourless**, they do not alter aesthetic, texture or colour of the materials, they do not add shine.
- **Re-applicable**, no need to remove previous product residues. Easy handling and application.
- Thanks to their high water repellency, they **keep surfaces cleaner for longer**. Raindrops wash away dirt.



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AQUASHIELD FORTE: Hydrophobic nanoprotector



Hydrophobic, solvent-based, especially suitable for vertical or tilted surfaces. Ideal for areas with high rainfall or surfaces very exposed to water.

- **Total yield:** 5-12m²/L.
- **Application:** By hand-held sprayer, air spray gun, brush or roller, making two applications, preferably crossed, to ensure that all areas are well covered. The second application can be made on the substrate still wet.
- **Complete drying :** 24 hours.

AQUAPORE FORTE: Hydrophobic nanoprotector



This hydrophobic protector is the homologue of the previous one, but it is water-based, so it requires a longer drying time.

- **Total yield:** 5-12m²/L.
- **Application:** By hand-held sprayer, air spray gun, brush or roller, making two applications, preferably crossed, to ensure that all areas are well covered. The second application must be made on the substrate still wet (wet-on-wet).
- **Complete drying:** 48 hours.

TECNADIS PRS PERFORMANCE: Hydrophobic & oleophobic nanoprotector



Hydrophobic and oleophobic, solvent-based, it is recommended for all types of vertical and horizontal surfaces. Due to its oleophobic property, it is stain-repellent and used as a **sacrificial anti-graffiti** (it makes graffiti cleaning easier). It is also used as **anti-urine**, due to its great repellent effect, which reduces the accumulation of dirt and unpleasant odours.

- **Total yield:** 6-12m²/L.
- **Application:** By hand-held sprayer, air spray gun, brush or roller, making two applications, preferably crossed, to ensure that all areas are well covered. The second application can be made on the substrate still wet.
- **Complete drying:** 24 hours.

TECNADIS PRS PERFOPORE: Hydrophobic & oleophobic nanoprotector



This hydrophobic and oleophobic protector is the homologue of the previous one, but it is water-based, so it requires a longer drying time.

- **Total yield:** 5-12m²/L.
- **Application:** By hand-held sprayer, air spray gun, brush or roller, making two applications, preferably crossed, to ensure that all areas are well covered. The second application must be made on the substrate still wet (wet-on-wet).
- **Complete drying:** 48 hours.

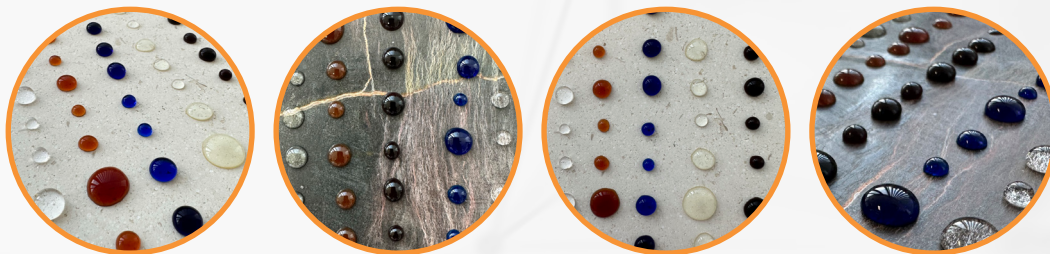
All these protectors are available with the antimicrobial component "ACTIVE", which, in addition to the features described above, inhibits and slows the growth of micro-organisms.



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MAINTENANCE

After a correct application of TECNAN products, surfaces become water-repellent, repel the ingress of water, are protected against it and also acquire a non-stick property. Aqueous liquids do not penetrate the substrate, they are deposited on the surface and the materials become "washable", they are easy-to-clean. Thus, maintenance or cleaning actions, for general dirt, are based on removing solids or liquids from the surface. On the other hand, protectors that are also oleophobic also prevent the entry of any organic liquid (oil, grease, drinks, etc.), thus preventing further adherence of dirt to the substrate.



*A real example of resistance to different types of stains: oil, coffee, vinegar, methylene blue...
These stones have been protected with Tecnadis PRS Performance.*

Cleaning:

- As a general rule, for the removal of loose or **suspended particles, such as soil, mud or dust**, water alone can be used to wash away the dirt and leave the surface clean.
- For **spot or stubborn stains**, we recommend using water together with neutral soaps with the help of a pressure washer (working at the lowest possible pressure).
- If in need of removing stains that have remained on the surface for a long time, or severe dirt, more aggressive cleaners can be used for these specific areas, such as stain removers or cleaning vinegars, starting to use them diluted to avoid attacking the protector.
- In extreme cases of severe dirt, a more abrasive cleaner can be used to remove stains, after which it is necessary to reapply the protector in the damaged area. As they are colourless, they can be reapplied zonally when required.

Maintenance:

- On **vertical surfaces**, to maintain the maximum effectiveness of the protection, we recommend cleaning and reapplication of the treatment every 5-10 years, depending on exposure to pollutants and atmospheric agents.
- On **horizontal surfaces**, in areas with high traffic, it is recommended to establish a periodic zonal maintenance plan every 2-5 years, depending on the use and abrasion.

For maintenance reapplications it is not necessary to remove previous treatments, it is applied directly on the substrate, after cleaning of dirt and loose particles.