

TECNADIS PRS PERFORMANCE ACTIVE

Hydrophobic and oleophobic product with antimicrobial properties for porous facades and paving

Product description	Hydrophobic, oleophobic and inhibitor of microorganisms (such as bacteria, moulds, moss, etc.) based on nanoparticles of very high-performance for paving and facades of any type of porous materials. Transparent, breathable and high-performance protector, mainly designed for the <u>protection against water, oil and stains in general</u>, facilitating their cleaning, as well as everyday dirt (coffee, soft drinks, etc). In addition, it also provides <u>protection against graffiti</u> (facilitates its cleaning) and <u>protection against urine</u>, avoiding dirt and bad smells produced by it. Product of high resistance to continuous mechanical action/abrasion and of high durability.
Uses	The active compound that produces the water repellency are ceramic nanoparticles dispersed in an organic media (isopropanol), therefore TECNADIS PRS PERFORMANCE ACTIVE is compatible with any porous and low porous building materials. Used as a protector on vertical or tilted surfaces (facades, walls, roofs, terraces, etc.) and horizontal surfaces (flooring and paving), both in rehabilitation-restoration and in new construction. Designed to be applied as repellent to water, oil and stains in general by means of surface treatment on all types of porous surfaces, with special application on concrete, natural stones (marble, slate, granite, limestone, sandstone), facing brick, monolayer mortars, prefabricated, clay/terrazzo, wood, etc., as well as mixed surfaces in which different materials and porosities are mixed. In addition to being used as a protector against water and stains (reduces their absorption), it is also used as a sacrificial anti-graffiti (makes it easier to clean graffiti) and as anti-urine due to its great repellent effect that reduces the accumulation of dirt and bad smells. It also prevents / delays biological growth. 
Features and advantages	▪ It reduces the absorption and accumulation of water and stains on the treated substrate, as well as the proliferation of microorganisms and moss, preventing/delaying their growth on the treated substrate. ▪ It does not form film, does not cross-link, allowing the complete breathability of the substrate. ▪ As a hydrophobic protector, it provides anti-carbonation properties in concrete and mortar treatments. ▪ Product of high resistance to continuous mechanical action/abrasion (footsteps, rolls...) and of high durability. Guaranteed durability of more than 10 years against all types of external environmental conditions on facades. ▪ Total UV resistance. ▪ It does not modify the appearance, colour or structure of the treated substrate (in some cases, it may cause a slight change in the tonality of the material, almost imperceptible - it is recommended to carry out a preliminary test before application if the slight change in tonality could be a limitation).

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	- Unlike most conventional products, it allows for complete re-application without the need to remove previous product remains. - The active compounds do not react with the treated surface. - Thanks to its high repellency to water and stains, it keeps surfaces cleaner for longer than if they were untreated.
Product information. Composition and physicochemical properties.	Colour: Colourless, translucent liquid. Packaging: 1L, 5L and 25L (larger volumes on request) Storage: 12 months from the date of manufacture in the original sealed containers at temperatures between 5°C and 30°C. Volatile Organic Content (VOC) >85% wt Density: 0,81 g/ml Viscosity: 6 cP Boiling point: 82,5°C Flash point: 11,85°C Solvent: Isopropanol 
Surface preparation	Before application, clean the surface and remove all traces of detergents and cleaners. The surface must be completely clean. Avoid the presence of fissures or cracks in the substrate. It is recommended, if possible, to repair them beforehand. Pay special attention also to materials with high porosity that may have transport pores or open pores of a considerable size as this may influence the final amount of product to be applied. For this purpose, it is recommended to carry out a preliminary test as described in the section "Yields and storage". In case of presence of microorganisms (moulds, algae, etc.) it is recommended to remove them thoroughly before the application of the product.
Application information	SHAKE THE CONTAINER BEFORE ITS USE. <u>In the case of highly porous materials</u> (often facades, window sill, aprons or other external elements), apply the product preferably by spraying (<i>airless</i>, turbines, backpacks or hand-held sprayers), roller or brush. Two applications are recommended. The second application can be made on the substrate still wet of the previous application, waiting for a while or after the substrate is completely dry. <u>In the case of materials of low and very low porosity</u> (often tiles, countertops, hydraulic terrazzo, and interior elements) apply it with brush, roller or sponge; the surface should be continuously smoothed with the application element until it is homogenized without observing any accumulated excess of product. This process favours a correct distribution and penetration in the substrate. Finally, go over with a cloth or microfibre if it is considered that there are excesses, for a better distribution of the product.

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Graphic description:

Application (2 coats):

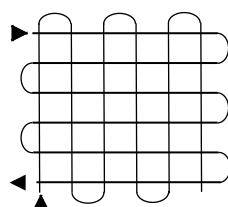


Figure 1

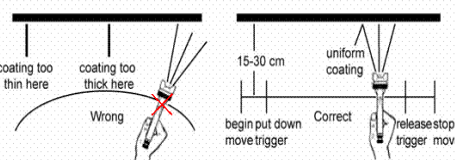


Figure 2

- Working tools: After use, clean with a compatible solvent.

Yields and storage

- Dilution: none
- Yield: Always apply the required amount of product, which will depend on the quality and porosity of the material. It is recommended to carry out a preliminary test before application in order to determine the proper yield in each case. The following is a reference table with generic yields, although there can always be exceptions, so it is advisable to test beforehand to ensure the necessary quantity:

TOTAL YIELDS (for guidance only)

MATERIAL	m ² /l
Polished marble, terrazzo	12,5
Low porous limestone, polished concrete	10
Facing bricks, tiles	8
Granite, limestone, sandstone, non-polished concrete, monolayer mortar	5-7
Very porous sandstone and limestone, rough concrete	4

- Complete drying time: 24 hours (against water) and 48 hours (against stains)
- Operating temperature: between 5°C and 30°C.
- Storage temperature: between 5°C and 30°C; protect from direct sunlight; store in original container tightly closed.

Observations

- The high water repellent effect it exhibits from its first moments (superhydrophobicity – contact angle of water droplets with the surface > 150°) decreases on surfaces subjected to continuous friction, especially in humid conditions, although the water protection is still maintained.
- It is recommended to apply at temperatures between 5°C and 30°C.
- Carry out an initial test on painted surfaces to avoid the appearance of discoloration caused by the solvent contained in the product (isopropanol).
- In case of future applications of water-based paints, reconstructions with different mortars or other products on the treated surface may be limited by the existing hydrophobic effect.
- As far as possible, its application is recommended after finished works, achieving optimal protection by not being affected by aggressive materials that may be used on site and/or extraordinary or complex circumstances that may occur.
- This product is not suitable for medical or pharmaceutical uses.

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Handling precautions	Product information necessary for safe use is not included in this document. Before handling the product, read the material safety data sheets and package labels for safe use and for information on physical and health hazards. Material safety data sheets are available and supplied by TECNAN. The product must be applied in a well-ventilated area. It contains volatile solvent (isopropanol).
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.