

TECNADIS PRS PERFORMANCE
Hydrophobic and oleophobic product for facades and floors made of porous materials

Product description

High performance **hydrophobic and oleophobic product** based on nanoparticles for floors and facades made of any type of porous materials.

Transparent, breathable and high performance protector, mainly designed for the protection against water, oil and stains in general, facilitating their cleaning/removal by simple washing with water and normal cleaning processes, as well as everyday dirt (coffee, soft drinks, etc). It also protects surfaces against graffiti (It facilitates its removal).

Product of high resistance to continuous mechanical action/abrasion and of high durability.

Applications

The active compound that produces water repellency is ceramic nanoparticles dispersed in an organic media (isopropanol), therefore **TECNADIS PRS PERFORMANCE** is compatible with any porous and low porous constructive substrate.

Designed to be applied as repellent to water, oil and stains in general by surface treatment on all types of porous surfaces with special application on concrete, natural stones (marble, slate, granite, limestone, sandstone), wood, facing brick, mortars, monolayers, prefabricated, clay/terrazzo, wood, as well as mixed surfaces where different materials and porosities are mixed.

Used as a protector for facades, roofs, terraces and floors (outdoor and indoor) in both refurbishment and new construction.

Uses: Prevents the proliferation of microorganisms (moulds, algae, lichens), humidity, deterioration, staining, facilitates the cleaning of graffiti, etc.

It is also used as an **anti-urine** due to its great repellent effect that prevents the accumulation of dirt and bad smells.



Features and advantages

- Avoid the accumulation and penetration of water on the treated surfaces. It also facilitates graffiti removal.
- It does not form film, does not cross-link, allowing the complete breathability of the substrate.
- 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.
- Do not change the appearance, colour or structure of the treated substrate (in some cases, may cause a darkening of the material, almost imperceptible).
- Unlike traditional products, it can be perfectly reapplied without removing the previous product remains.
- The active compounds do not react with the surface, maintaining the substrate unaltered.
- Thanks to its high water repellency (large rebound of water on the surface) it keeps surfaces free of dust and dirt for longer.

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Product information. Composition and physico-chemical properties .

- **Color:** Colorless, translucent liquid.
- **Formats:** 1L, 5L and 25L (higher 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

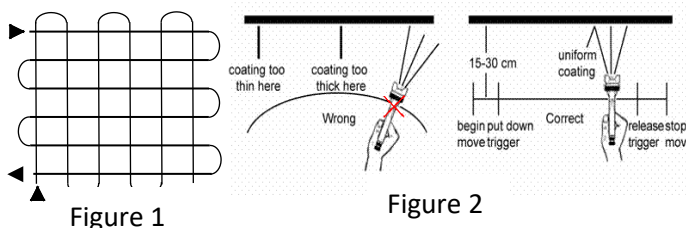
Before application, thoroughly clean the surfaces and remove all traces of detergents and cleaners. The Surface must be completely clean. Avoid the presence of fissures or cracks in the substrate. It is recommended, if possible, prior removal thereof.

How to use

- **SHAKE THE CONTAINER BEFORE USE.**
- In the case of highly porous materials (often facades, rain gutters, aprons or other external elements), the product is applied by spraying or with an air gun (airless standard low pressure), roller or brush. It is recommended two applications, being possible to apply the second coat over the wet substrate from the previous application, waiting for an interval of time or even over the substrate completely dry.
- In the case of materials of low and very low porosity, (frequently tiles, countertops, hydraulic terrazzo, and interior elements) should be applied by 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, wipe with a cloth or microfiber if it is considered that there are excesses, for a better distribution of the product.

Graphic description:

Application (2 coats):



- **Application tools:** After use, clean them with any type of general solvent compatible with the working tools (alcohol, acetone, universal solvent).
- **Dilution:** none
- **Yield:** Estimation based on the material porosity

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Yields and storage

APPROXIMATED TOTAL YIELDS	
MATERIAL	m ² /l
Polished marble, Terrazzo	12,5
Low porous limestone, polished concrete	10
Brick, tiles	8
Granite, limestone, sandstone, non-polished concrete, mortar cement.	6-7
Extremely porous sandstone and limestone, high porous concrete	5

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

Observations

- The high water repellent effect showed from the first time (superhydrophobicity – contact angle of the water drops with the surface > 150°) decrease in those surfaces exposed to a continuous abrasion, especially in wet conditions, although it is still maintained the protection against water.
- It is recommended to apply at temperatures between 5°C and 30°C.
- Perform an initial test on those painted surfaces to avoid the appearance of discoloration caused by the solvent of the product (isopropanol).
- Possible future applications of water-based paints, reconstructions with different mortars or other products on the treated surfaces may be limited by the hydrophobic effect.
- This product is not suitable for medical or pharmaceutical uses.

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 hazards and health. 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 a volatile solvent (Isopropanol).

Limited warranty

Please read carefully:

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 be used properly, verifying in preliminary tests that the product is suitable for its intended use. Suggestions of use shall not be taken as inducements to infringe any particular patent. The only guarantee of TECNAN S.L. is that the product will meet the sales specifications in effect at the time of shipment. Your exclusive remedy for breach of this warranty is limited to the refund of the purchase price or replacement of any product that is not warranted. TECNAN S.L. specifically disclaims any express or implied warranty of fitness for a particular purpose or marketing. TECNAN S.L. disclaims responsibility for any damage caused accidentally.