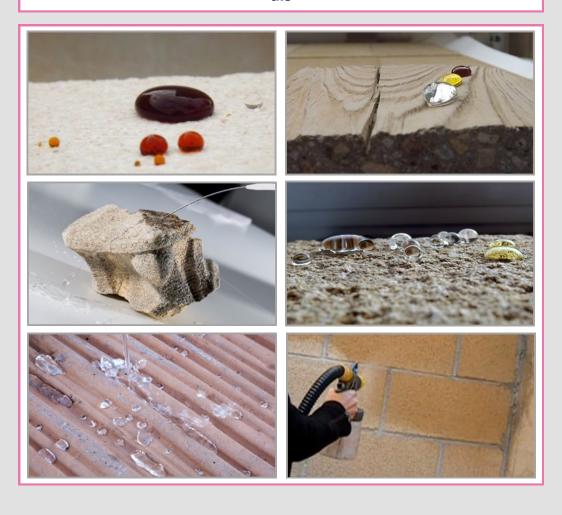


TECNADIS PRS



Nanotechnology-based <u>water and oil repellent</u> with high performance for both <u>vertical</u> and <u>horizontal</u> surfaces of porous materials



TECNADIS PRS PERFORMANCE

Hydrophobic and anti-stain solution with abrasion resistance designed for both **vertical and horizontal** surfaces of **porous materials.**

CHARACTERISTICS

PROTECTION AND EASY CLEANING: Protection against water, oil, humidity, spills, etc. It also facilitates the cleaning of graffitis.

INERT AND DOES NOT FORM ANY FILM: Does not react chemically, leaving the substrate unchanged, allowing, in addition, the total breathability of the material

LONG LIFETIME: Guaranteed durability higher than 10 years against all type of external environmental conditions.

EXCELLENT ABRASION RESISTANCE: maintains functionality after applying different abrasions (footstep, rolling...).

OPTIMUM RESISTANCE TO UV: It is not affected by solar radiation since it does not lose its properties and does not modify its aspect.

EASY APPLICATION: Quick, using conventional systems and without needing of additional curing. Ultrafast drying.

TOTALLY RE-APPLICABLE: No need to remove previous treatments.

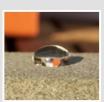
IDEAL SOLUTION FOR ANY KIND OF SURFACE!



Concrete/ mortar



mud/terrazzo



Natural stone



Wood



Brick/ Prefabricated

SUITABLE for: Marble, slate, granite, limestone, sandstone, WPC (Wood composite), alabaster, plaster, hydraulic mosaic, wood, concrete, brick, terrazzo, etc.

TECNADIS PRS PERFORMANCE AGAINST ITS MAIN COMPETITORS

Results obtained in laboratory tests in relation to main competitors

- WATER REPELLENCY: TECNADIS PRS PERFORMANCE has a higher contact angle in comparison with any of its competitors, which results in a higher water repellency (better hydrophobic effect-very spherical drops). In addition, its best advantage is that the surface does not get wet.



After removal of water drops



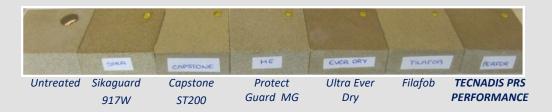
It can be clearly seen how the material surface gets wet with products such as Sikaguard 917W and Filafob, while with the <u>TECNADIS PRS PERFORMANCE</u> is not wet at all.

- <u>PERMEABILITY</u>: In contrast to traditional water/ oil repellent products based on siloxanes, <u>TECNADIS PRS PERFORMANCE</u> does not form any continuous film, allowing the breatheability of the treated substrate. Tests developed by external laboratories show a decrease on water vapour permeability lower than 10%.
- TOTAL RESISTANCE TO UV: The nano-structure of the product does not have any weakness to UV, a fact which is not true for the competitors products based on silo-xanes and which form film, since its organic structure is much easily breakable by this type of radiation. Tests carried out by external laboratories show a variation in the permeability lower than 3% after its exposure to UV, while its hydrophobic as well as oleophobic effects and abrasion resistance remain unchanged.
- **REAPLICABILITY**: Some products of the competence do not allow re-applying. The *TECNADIS PRS PERFORMANCE* works perfectly after being re-applied . In relation to other products, all of them leave water and oil stains once the liquids are removed from the Stone re-applied.

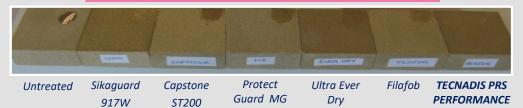
TECNADIS PRS PERFORMANCE AGAINST ITS MAIN COMPETITORS

Results obtained in laboratory tests in relation to main competitors

- OIL REPELLENCY: TECNADIS PRS PERFORMANCE has a contact angle to oil higher than its competitors, which results in a higher repellency to oil. In addition, in contrast to its competitors, TECNADIS PRS PERFORMANCE is the only product which doesn't leave stains on the surface after removing the oil with a cloth.

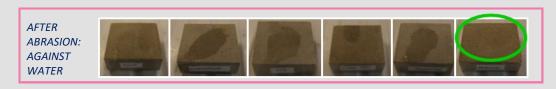


After removal of oil drops with a cloth



The oil stains are clearly seen on the surfaces of products such as Capstone ST 200 and Protect Guard MG, while <u>TECNADIS PRS PERFORMANCE</u> has no stains.

- <u>ABRASION RESISTANCE</u>: In contrast to its competitors, *TECNADIS PRS PERFOR-MANCE* is the only product which has a high resistance to abrasion maintaining both the hydrophobic and oleophobic effect after several abrasion cycles with a scourer.



AFTER ABRASION: AGAINST OIL



TECNADIS PRS PERFORMANCE AGAINST ITS MAIN COMPETITORS

Summary of the results obtained in laboratory tests in relation to itsmain competitors.

PRODUCT (Company)	HYDROPHOBIICITY	OLEOPHOBICITY	ml/m² (aprox.)	€/m² (0-15€)
TECNADIS PRS PERFORMANCE (TECNAN)	156,4º Water does not penetra- te into substrate	127,6º Oil does not leave stain	100 80-250	
Sikaguard 917W (Sika)	142,3º Water penetrates into substrate	110,1º Oil leaves trace	100 75-150	
Capstone ST200 (Dupont)	144,8º Water penetrates into substrate	123,8º Oil leaves stain	100	
Protect Guard MG (Guard Industry)	120,4º Water penetrates into substrate	115º Oil leaves stain	60 40-80	
Filafob (FILA)	80,5° Water penetrates into substrate	112º Oil leaves stain	100 100-200	
Ultra Ever dry (Ultra Tech Inc)	141,8º Water does not penetra- te into substrate	94,9º Oil leaves stain	230 230-270	

In **bold**, used yield; In *italics*, range of yields oaccording to data sheet.

* Tests carried out in the laboratories of TECNAN (Subject to variations depending on the application procedure and selected substrate).

USES AND APPLICATIONS



Avoid microorganisms



Avoid humidity, vegetation



Avoid deterioration



Avoid stained



Facilitates graffiti cleaning



Roofs



Terraces



Facades



Indoor floors



Outdoor floors

Some examples of the application of TECNADIS PRS PERFORMANCE



Botín Center Tunnel Santander Bank (Santander)



Residential urbanization
(Santander)



Cathedral of Sevilla (Sevilla)



Lighthouse of the Matxitxako



CAP Building (Badalona)



Grand Palladium White Island Resort & Spa Hotel (Ibiza)



Alabaster building of La Rioja Government (La Rioja)



HISPANIA Restaurant (London)

TECNADIS SOLUTIONS - OTHER READY TO USE NANOPRODUCTS

AQUASHIELD Ultimate

Water repellent product for facades of porous materials.



AQUASHIELD FORTE

REINFORCED water repellent of very HIGH
PERFORMANCE for facades made of porous
materials...



TECNADIS PRS PERFORMANCE

Hydrophobic and oleophobic product for floors or pavements and facades.



Formats: 1L, 5L, 25L

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