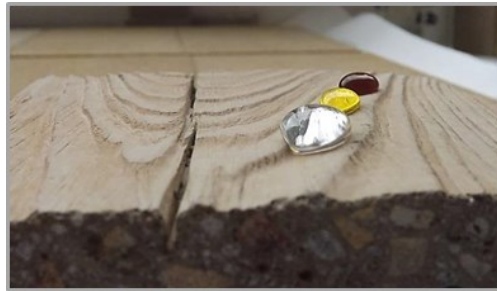
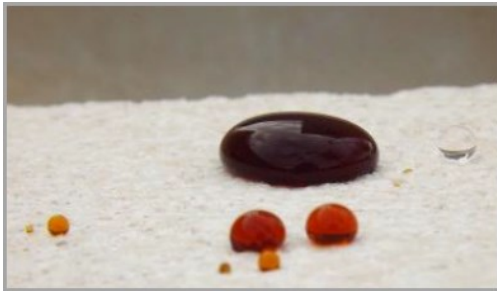




PERFORMANCE

NANO TECH

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



PERFORMANCE NANO TECH

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 graffiti.

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!



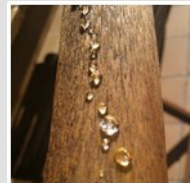
Concrete/ mortar



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.*

PERFORMANCE NANO TECH AGAINST ITS MAIN COMPETITORS

Results obtained in laboratory tests in relation to main competitors

- **WATER REPELLENCY:** *PERFORMANCE NANO TECH* 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.



Un- Sikaguard Capstone Protect Ultra Ever Filafob **PERFORMANCE**
 917W ST200 Guard MG dry **NANO TECH**

After removal of water drops



Untreated Sikaguard Capstone Protect Ultra Ever Filafob **PERFORMANCE**
 917W ST200 Guard MG dry **NANO TECH**

It can be clearly seen how the material surface gets wet with products such as Sika-guard 917W and Filafob, while with the *PERFORMANCE NANO TECH* is not wet at all.

- **PERMEABILITY:** In contrast to traditional water/ oil repellent products based on siloxanes, *PERFORMANCE NANO TECH* 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 siloxanes 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.
- **REAPPLICABILITY:** Some products of the competence do not allow re-applying. The *PERFORMANCE NANO TECH* 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.

PERFORMANCE NANO TECH AGAINST ITS MAIN COMPETITORS

Results obtained in laboratory tests in relation to main competitors

- **OIL REPELLENCY:** *PERFORMANCE NANO TECH* 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, *PERFORMANCE NANO TECH* is the only product which doesn't leave stains on the surface after removing the oil with a cloth.



Untreated Sikaguard Capstone Protect Ultra Ever Filafob **PERFORMANCE**
 917W ST200 Guard MG Dry **NANO TECH**

After removal of oil drops with a cloth

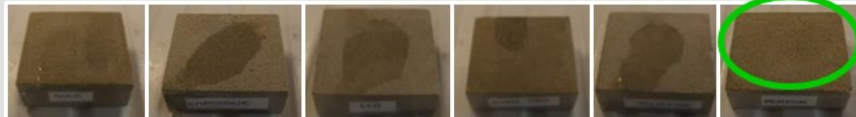


Untreated Sikaguard Capstone Protect Ultra Ever Filafob **PERFORMANCE**
 917W ST200 Guard MG Dry **NANO TECH**

The oil stains are clearly seen on the surfaces of products such as Capstone ST 200 and Protect Guard MG, while *PERFORMANCE NANO TECH* has no stains.

- **ABRASION RESISTANCE:** In contrast to its competitors, *PERFORMANCE NANO TECH* 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
 WATER









AFTER
 ABRASION:
 AGAINST OIL



PERFORMANCE NANO TECH AGAINST ITS MAIN COMPETITORS

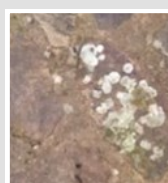
Summary of the results obtained in laboratory tests in relation to its main competitors.

| PRODUCT (Company) | HYDROPHOBICITY | OLEOPHOBICITY | ml/m ² (aprox.) | €/m ² (0-15€) |
|--------------------------------------|---|------------------------------------|-------------------------------|---|
| PERFORMANCE NANO TECH (TECNAN) | 156,4° Water does not penetrate into substrate | 127,6° Oil does not leave stain | 100 80-250 |  |
| Sikaguard 917W (Sika) | 142,3° Water penetrates into substrate | 110,1° Oil leaves trace | 100 75-150 |  |
| Capstone ST200 (Dupont) | 144,8° Water penetrates into substrate | 123,8° Oil leaves stain | 100 - |  |
| Protect Guard MG (Guard Industry) | 120,4° Water penetrates into substrate | 115° Oil leaves stain | 60 40-80 |  |
| Filafob (FILA) | 80,5° Water penetrates into substrate | 112° Oil leaves stain | 100 100-200 |  |
| Ultra Ever dry (Ultra Tech Inc) | 141,8° Water does not penetrate into substrate | 94,9° Oil leaves stain | 230 230-270 |  |

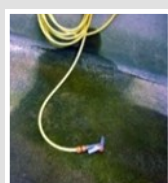
In **bold**, used yield ; In *italics*, range of yields according to data sheet.

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

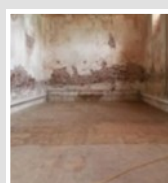
USES AND APPLICATIONS



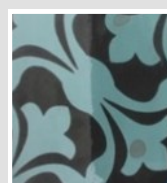
Avoid microorganisms



Avoid humidity, vegetation



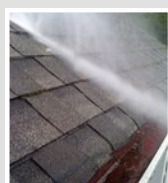
Avoid deterioration



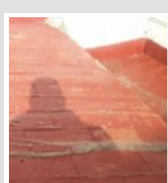
Avoid stained



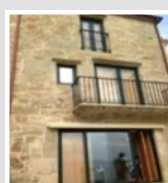
Facilitates graffiti cleaning



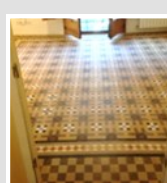
Roofs



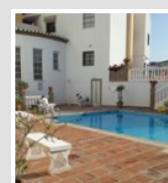
Terraces



Facades



Indoor floors

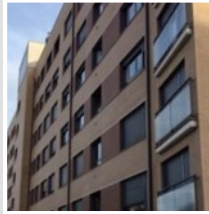


Outdoor floors

Some examples of the application of PERFORMANCE NANO TECH



Botín Center Tunnel
Santander Bank
(Santander)



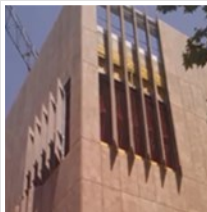
Residential urbanization
(Santander)



Cathedral of Seville
(Sevilla)



Lighthouse of the
Matxitxako



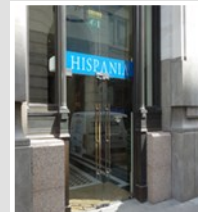
CAP Building
(Badalona)



Grand Palladium White
Island Resort & Spa Hotel
(Ibiza)



Alabaster building of
La Rioja Government
(La Rioja)



HISPANIA Restaurant
(London)

PERFORMANCE NANO TECH

Hydrophobic and oleophobic product for floors or pavements and facades.



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