

AQUASHIELD


Nano-based :

Ultimate

Member of the TECNADIS PRS family

Nanotechnology-based water repellent of very high performance
for vertical surfaces made by porous materials



AQUASHIELD Ultimate

Transparent water repellent mainly designed for the protection of **vertical and tilted surfaces of porous materials** against the action of water .

CHARACTERISTICS

SUPER-HYDROPHOBICITY: Avoids the water absorption in the substrate, (contact angle > 150°).

INERT AND DOES NOT FORM ANY FILM: Does not react chemically, leaving the substrate unchanged, allowing the complete breathability of the substrate.

PERMEABILITY: (< 10%) minimum variation of the capacity to transfer water vapour.

COLOUR: Does not change at all neither colour nor appearance of the substrate.

HIGH DURABILITY: Guaranteed durability higher than 10 years against all kinds of external environmental conditions.

OPTIMAL UV RESISTANCE: Unaffected by solar radiation since it does not lose its properties or modify their appearance.

EASY APPLICATION METHOD: Fast, with conventional systems and without needing of additional curing. Very fast drying.

TOTALLY REAPPLICABLE: no need to remove previous treatments.

IDEAL SOLUTION FOR TREATING ANY KIND OF SURFACE!



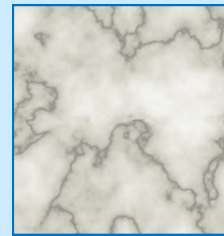
Sandstone



Granite



Limestone



Marble

SUITABLE for: *Slate, wood, concrete, brick, plaster, alabaster, mortar, etc.*

AQUASHIELD Ultimate COMPARED TO ITS MAIN COMPETITORS

Results obtained in laboratory tests in comparison with main competitors

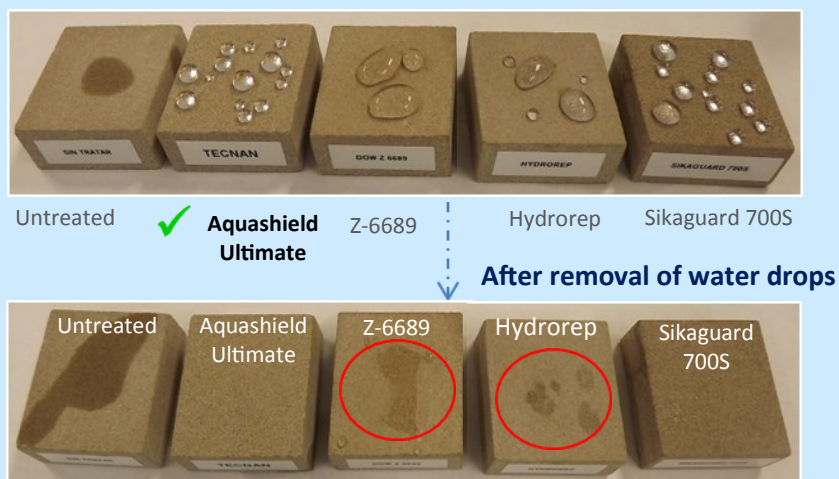
PRODUCT (Company)	Dilution	Performance (L/m ²) ^{1,2}	m ² /L (aprox.) ^{1,2}
AQUASHIELD U. (Tecnan)	-	0,19 <i>0,125-0,40</i>	5,25 <i>8-2,5</i>
Sikaguard 700S (Sika)	-	0,75 <i>0,75-1,25</i>	1,3 <i>1,3-0,8</i>
Z-6689* (Dow Corning)	1:19	0,2 <i>0,2-0,4</i>	5,00 <i>5-2,5</i>
Hydrorep (Fila)	-	0,15 <i>0,1-0,2</i>	6,7 <i>10-5</i>

¹ In bold, performance according to laboratory tests

² In italics, performance according to data sheet

*Dilution used according to manufacturer indications

- **WATER REPELLENCY:** *AQUASHIELD Ultimate* has a higher contact angle compared 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 material surface does not get wet. On the other hand, it is also shown how filmogenic products change the colour of the material .

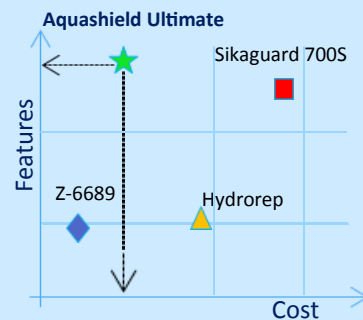


It can be clearly seen how the material's surface gets wet with products such as Z-6689 and Hydrorep, while with *AQUASHIELD Ultimate* is not wet at all.

- **COLOUR:** *AQUASHIELD Ultimate* **DOES NOT modify the aspect, structure and colour** of the original material **at all**. Nevertheless clear changes on the aesthetic conditions of the material are shown with several of its competitors such as Sikaguard 700S, and Z-6689 .



- **PERMEABILITY:** In contrast with traditional water repellents based on siloxanes, *AQUASHIELD Ultimate* does not form any film, allowing totally the breathability of the substrate.
- **TOTAL UV RESISTANCE:** 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
- **COST:** *AQUASHIELD Ultimate* presents **higher performance** comparing to the best product from the competence at a **highly competitive cost**, very close to the cheapest competitors . For example, in comparison to the high performance competitors such as Sikaguard 700S, its cost is **2-3 times lower** in €/m².



Summary of the results obtained in laboratory testing in comparison to competitors' products.

PRODUCT (Company)	CONTACT ANGLE	EFFECT ON COLOUR	PERMEABILITY (water vapour)	€/m ² (aprox.)
AQUASHIELD U. (Tecnan)	159,4 °	Colour does not change	↑↑↑	
Sikaguard 700S (Sika)	159,1°	Colour changes	↑↑↑	
Z-6689 (Dow Corning)	149,8°	Colour changes	↑↑	
Hydrorep (Fila)	133,1°	Colour does not change	↑↑↑	

Additionally, *AQUASHIELD Ultimate* presents total resistance to UV, does not form any film on the substrate, is totally re-applicable and has a long lifetime (more than 10 years)

Some examples of applications of AQUASHIELD Ultimate



Cathedral of Sevilla
(Sevilla)



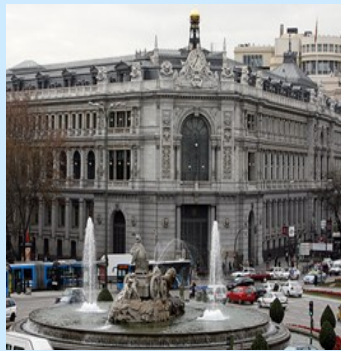
Tabacalera Building
(San Sebastian)



Cathedral of Oviedo
(Asturias)



Castellon Town Hall
(Castellon)



Headquarters Bank of Spain
(Madrid)



Cathedral of Tarazona
(Zaragoza)

TECNADIS SOLUTIONS - OTHER READY TO USE NANOPRODUCTS

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.



TECNADIS SOLUTIONS - OTHER READY TO USE NANOPRODUCTS

Why resign oneself with lower quality products ?
Choose the product with better performance at the most competitive price :

AQUASHIELD FORTE

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TECNADIS PRS PERFORMANCE

Hydrophobic and oleophobic product for floors or pavements and facades.



AQUASHIELD Ultimate

Water repellent product of **VERY HIGH PERFORMANCE** for facades of porous materials.



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