

## Hydroshield+

### SELF-CLEANING

The glass gets cleaned by coating due to its self-cleaning effect. The water runs down in form of water sheet. There are no water drops are left on the glass surface after taking shower. No need to clean everyday.

### NO WATER DRIED SPOTS

The surface is highly hydrophilic due to coating which does not allow formation and sticking of water in droplet forms. This prevents formation of dry water spots.

### ANTIFOGGING

The coating does not allow the fogging on glass surface in the shower. It keeps the shower glass clean without formation of any micro water droplets due to the vapour which comes in contact with the glass surface.

### ANTICORROSIVE

The nanocoating builds very hard protective layer of chemically bonded 100nm coating. This layer does not allow any chemical reactions with liquid, solid and gaseous matter.

### ANTIFUNGAL/ ANTIBIOFILM

The fungal and bacterial biofilm cannot build up due to the structure and physic-chemical properties of coated surface.

### ANTISCRATCHING

The hard coating protects the surface against the scratches. The abrasions are also prevented.



The glass coated with Hydroshield+ is remained clear and clean during and after taking up shower. It means hotels and household users do not need to clean frequently. This saves more than 90% cost of hotels spent on cleaning of glass everyday. It increases life of the glass by protecting glass through multiple functionalities such as anticorrosive, anti-abrasive (anti-scratching), and anti-cementing. The glass remains more hygienic due to antibiofilm (antifungal and antibacterial) function. The clean shower glass enhance joyful and aesthetic experience of users. The Coating is applied after tempering of glass with computer controlled plasma process. The thickness of coating is kept at 100nm.



Figure 1: Shower glass without Coating (Fogging)



Figure 2: Hydroshield+ Coated glass remains clean after shower and No fogging

### Specifications

1. Durability of coating is more than 25 years.
2. The abrasion test as per EN 1096-2 has shown No abrasions for more than 3000 cycles. Normal EN1096-2 standard needs only 400 cycles without any abrasions.
3. Acid test and Sodium salt test with PH 2 and PH 11 have no effect on coating for more than 300 hours.
4. No osmosis on the coated surface of glass due to water or water dissolved soap. No leaching of Ca, Mg, Na, Al and Fe compounds from the surface.



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