

# SolidGuard

## Anti-Microbial Solid Surface

### The hand wash systems that kill bacteria

Solid surface is a commercially blended material that is engineered to be highly durable, extremely hygienic and provides years of maintenance friendly service. Our proprietary blend of compounds have been formulated to offer an unmatched level of quality for AquaDesign’s washfountains and lavatory systems.

#### Features

The seamless composition of the material will prevent dirt and debris from collecting and forming bacteria.

The anti-microbial protection and the material’s non-porous nature are designed to inhibit growth of harmful viruses, mold and bacteria.

The material is homogenous and hereby its color and anti-microbial composition are consistent throughout.

Engineered to resist damage from stains, burns, scratches and vandalism and can be easily maintained with common cleaning agents and a light buffing to renew the finish.

#### How does it work?

In the presence of moisture, Intersan’s Solidguard solid surface will gradually release anti-microbial ions. These positively charged ions and the negatively charged microbes are naturally drawn together and this bond disturbs the microbes balance. As a result of this imbalance, the microbe’s cell walls burst and the microbe is extinguished.

In a separate reaction, anti-microbial ions are absorbed directly into the microbes and form a reactive bond to the microbe’s cellular enzymes. This bond inhibits enzyme activity and their corresponding growth, thus extinguishing the microbes.

#### How long does the protection last?

The anti-microbial characteristics of Solidguard are found throughout the material and aren’t merely a surface coating. The anti-microbial agent is mixed into the material during the manufacturing process and thus present on the surface and throughout the finished product.

So over the years even if the product gets scratched or completely refinished the protection will remain.

Solidguard® Anti-microbial Solid Surface Test* Results	Number of living bacteria		Reduction%
	At beginning	After 24 hours	
Test result of anti-microbial effect against Escherichia coli			
Untreated solid surface	1.2 x 10 <sup>5</sup>	1.0 x 10 <sup>5</sup>	-
Solidsan® anti-microbial solid surface	1.2 x 10 <sup>5</sup>	<1 x 10 <sup>2</sup>	>99.900
Test result of anti-microbial effect against Staphylococcus aureus			
Untreated solid surface	1.3 x 10 <sup>5</sup>	8.4 x 10 <sup>4</sup>	-
Solidsan® anti-microbial solid surface	1.3 x 10 <sup>5</sup>	<1 x 10 <sup>2</sup>	>99.883

\*Tests executed in accordance with "JIS Z 2801"