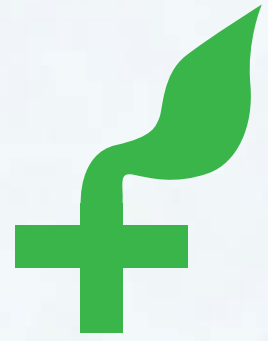


innoShield



Environmental  
Friendly Coating



# Environmental-friendly solution

## Excellent Chemical Resistance

### Anti microbial

Bacillus, Aeruginosa, Staphylococcus Aureus, MRSA

#### Performance test result

Start	24 hbur
$3.6 \times 10^5$	<10
$5.5 \times 10^5$	<10
$2.7 \times 10^4$	0
$6.3 \times 10^5$	50

#### Test Organization

Foundation of Japan Food Research Center

## Excellent Weathering Resistance

### Heat Resistance

Fire burn up to 600°C

#### Performance test result

No correspond

#### Test Organization

Aichi prefecture industrial technology laboratory

## Easy cleaning

Form of hydrophilic membrane for easy cleaning

#### Performance test result

Use wet cloth and easy wipe without detergent

## Highly Scratch Resistance

Coating film 9H pencil hardness

#### Performance test result

Over 9H (Mohr's hardness 4.5)

#### Test Organization

Aichi prefecture Industrial Research Institute

## Anti Fungus

Inorganic salt nutrient 1 over 100 density test

#### Performance test result

Cannot recognize the growth of fungus

#### Test Organization

Foundation of Japan Food Research Center

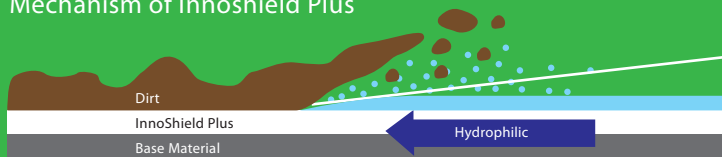
Features



### What is Innoshield Plus?

Innoshield Plus is a Eco-friendly Ceramic Coating. Its main composition are  $\text{SiO}_2$  and  $\text{Al}_2\text{O}_3$ , 100% Inorganic and contain organic substances. It can be apply on glass, aluminium, stainless steel, sheet metal, copper and most metallic surfaces. It do not produces VOC gases, so contribute a better living space and society.

### Mechanism of Innoshield Plus



Form of Hydrophilic membrane, water able to get below to the dirt or oil spot and lift it up.



### Easy Cleaning

Inorganic coating has better resistance to adhere dust or stain. Our environment contain abundance of organic substance. Once the surface of the coating are adhere with organic stain, we can use water without any detergent to clean or wipe of easily. Innoshield will be hydrophilic and form a water membrane and penetrate underneath of the organic stain and lift it off, like a peeling effect. Then we can use running water or a damp cloth to clean it.

### Reliable and Durable Coating

Since Innoshield Plus is an inorganic coating, thus it has excellent resistance properties against acid/alkaline and organic solvent. Innoshield Plus have a highly scratch resistance of 9H, where normally organic paint has only 1H. It also have excellent weathering properties, the colour fading issue under UV radiation will be minimise. Innoshield Plus can also withstand a temperature up to  $600^\circ\text{C}$ , so it can be apply for some area where heat is a major problem. It also antimicrobial and anti-fungus, so it can be apply on outdoor where fungus might affect the appearance or some pharmaceutical application.

## Transparent Innoshield Plus with colour tints



Bronze tinted



Blue tinted



Gold tinted



Natural colour

### Colour Tint

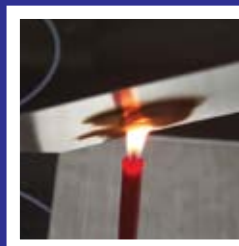
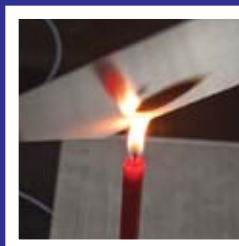
Innoshield Plus offer various colour tint, more design versatility for designer. Above show some hairline finished stainless steel sheet in colour tint other than the standard bright silvery colour.

## Easy cleaning test



### Stain from Permanent Marker Pen

The image shown a progressive action of using a permanent marker on the Innoshield Plus coated metal plate. Then pouring some water (clean water without organic solvent or detergent). The Ink being lift and float on the water, finally a easy and light wipe using paper.



### Burn mark from candle

A candle have been use to demonstrate the heat resistance of Innoshield Plus. Hold the Innoshield Plus coating into the candle flame, a black soot will stain on the coating, then pouring water ( clean water in room temperature) will lift and peel the burn marks away easily. Finally use a paper to wipe off all the residue. There is no burn mark remain on the coating.

**Inno  
GLASS**

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