

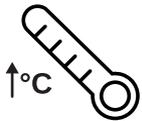
## 24/7 Antimicrobial Coating Technology

faytech can provide next-generation touchscreens with 24/7 germ-free protection coating technology! By partnering with **Kastus® Technologies**, faytech is able to integrate Kastus' coatings into the manufacturing process to produce touch panels with antimicrobial coated glass. This way we will provide touchscreen devices with 24/7 germ free protection to all our customers!



### Applying Antimicrobial Coating

The substance is a one component liquid which gets sprayed onto the glass surface during the glass manufacturing process.



A burn-in process is required, heating up the glass to extremely high temperatures (~600°C). This will burn the coating into the surface and make it permanent.

This burned-in coating will last for the complete lifecycle of the product and is active 24/7, day and night.



### Advantages of Antimicrobial Coating

- The coated surface starts breaking down surface bacteria as soon as it's deposited and inhibits multiplication.
- The coated surface can be cleaned using soap and water, it does not require chemical cleaners for disinfection. Better for the screen. Better for the (cleaning) staff. Better for the environment. Plus it's less expensive than chemical cleaners when considered over the lifecycle of a screen product.
- The coated surface permanently blocks up to 99.99%\* of bacteria. Proven results against MRSA, E.coli and C. diff. (Anti-bacterial activity R=1.76)

\*ISO 27447 Antimicrobial certification standard independently verified by Airmid laboratories

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## How it Works

The Antimicrobial coating is primarily natural light-activated (photocatalytic) - this can be a combination of front of screen or back lighting. Kastus' coating will work under ALL natural light, including UV. Even at night or in the dark, when light is not present, Kastus has a patented ingredient that will also work against bacteria to ensure all day 24/7 hygiene.

Once a Kastus-coated screen is exposed to light for the first time, the technology will start producing bacteria-bashing radicals after 2 minutes. Once the Kastus Antimicrobial coating is 'on', it's 'always on'.

During the day-to-day use of a screen, light will continually hit the surface of a Kastus coated screen and constantly generates reactive oxygen species (ROS). These ROS attach themselves to the surface bacteria they find and eliminate them by breaking down their DNA.

## Environmental Tests

Test Item	Result
Black dust-free cloth (polyester) simulation	<b>No reduction in Kastus coating performance after 150,000 cleaning cycles</b>
Nylon brush simulation	<b>No reduction in Kastus coating performance after 4,000 cycles</b>

Please keep in mind that the coating has a surface pencil hardness of 9H. Scratches in the coating will damage the anti-bacterial performance in this area.

Should you see the 'antimicrobial coating icon' on the glass of your faytech device, you can be ensured it is coated by **Kastus® technologies** and provides 24/7 germ free protection lasting the entire product lifecycle.

