

# COPPER-GUARD

(ANTIMICROBIAL FILM)



**Dhonaadhi**  
Hitec Innovations

WIDESPREAD APPLICATIONS ON FREQUENTLY TOUCHED SURFACES

ATM Machines, Touchscreens'  
Mobile Phones



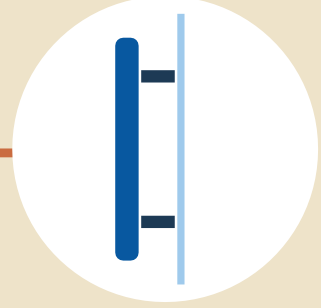
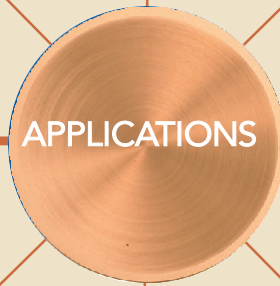
Shopping cart handles



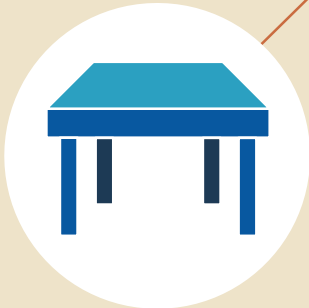
Doorknobs



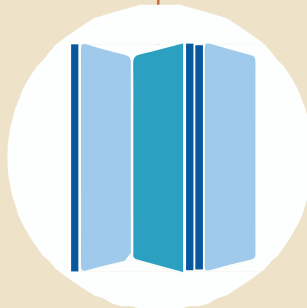
Keypads, Calculators, Buttons



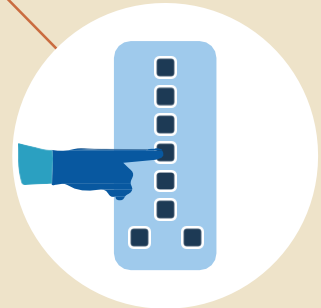
Doorhandles, handrails



Tables, desks, countertops



Partitions, Sliding doors,  
Elevator walls



Elevator buttons

## SPECIFICATIONS

- Width: 40cm Length: 100cm Thickness: 150  $\mu$ m (0.15mm- paperthin)
- Available in adhesive & non-adhesive rolls
- Easy to handle for self-application



**COPPER-GUARD**  
**Kills coronavirus oncontact**  
**in a few minutes**



SAFE TO TOUCH



KILLS PATHOGENS



ENVIRONMENT SAFE



WATER RESISTANT



LONG LASTING

# COPPER-GUARD

## to defeat Coronavirus!

Lab-tested to destroy Bacteria, Viruses, Pathogens and Microbes.

### HOW DOES COPPER-GUARD KILL BACTERIA & VIRUSES?



1. Copper ions on the surface are recognised as an essential nutrient and infiltrate the cell.



2. A lethal dose of copper ions interferes with normal cell functions and membrane integrity, resulting in loss of significant nutrients and water.



3. Copper ions impede cell respiration and metabolism, causing damage to DNA and results in cell extinction. This environment does not let the virus self-replicate on the surface.

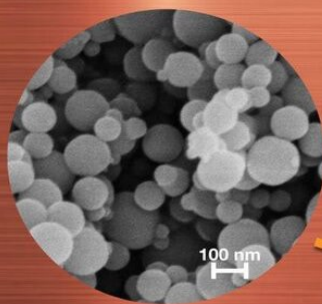
• Human *coronavirus* can proliferate for days on materials such as plastic, ceramic tile, glass, and stainless steel.

• However, *coronavirus* is completely deactivated on the Copper surface in a short time and Copper destroys the body structure and genome of the virus.

• 'Antimicrobial copper' of COPPER-GUARD starts acting on the virus immediately on contact, and rapidly deactivates the coronavirus within minutes when the *coronavirus* touches it's surface.

#### SARS-Like and SARS-Cov

ANTIMICROBIAL INNOVATIONS



Nanocopper, Copper, Ionic Copper, Cuprous Oxide



After 5 minutes of exposure:  
Infectivity dropped down to undetectable levels <sup>1</sup>

#### Influenza (e.g H1N1)



Decreased by  $>5.0 \log_{10}$  after 30 sec. incubation <sup>2</sup>



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