



# Warrior<sup>TM</sup> Antimicrobial Coatings

**Reinste**  
Nano Ventures



- **Reinste Nano Ventures Pvt Ltd** is the manufacturer, importer, distributor, supplier of nanomaterials & superior Nanotechnology based Products since 2006.
- **Warrior™ Smart Coatings** are the finished products manufactured and marketed by **Reinste Nano Ventures Pvt Ltd**.
- At **Reinste Nano Ventures**, we ardently believe that innovation and differentiation are the fundamental components of growth and enlightenment.

# RANGE OF PRODUCTS

**Anti-microbial  
Home Care**

**Anti-microbial  
Gadget Care**

**Anti-microbial  
Leisure Care**

**Anti-microbial  
Hospitality  
Care**

**Anti-microbial  
Retail Care**

**Anti-microbial  
Office Care**

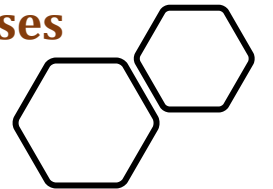
**Anti-microbial  
Recreational  
Centers care**

**Anti-microbial  
Vehicle Care**



# ANTI-MICROBIAL SHIELD FOR YOUR HOME

- **An anti-microbial shield is a substance that inhibits the growth of microorganisms and suppresses their reproduction.**
- **These coatings when applied on any surface, makes that surface anti-microbial for long time.**
- **These are widely used in homecare settings.**



# AREA OF APPLICATION

- **Doorbells and buzzers**
- **Doors and windows**
- **Coffee table and chairs**
- **Dining table and chairs**
- **Couch and beds**
- **Stationary objects**
- **Main Gates**
- **Treadmills**
- **Switch boards and plugs**
- **Walls / Windows**
- **Refrigerator**
- **Microwave/ ovens**
- **Cupboards**
- **Cook Tops**
- **Bin**
- **Taps**
- **Toilet seat and Flush button**
- **Staircase banister**
- **Curtain and linens**
- **Doormats**



Above mentioned list is only for representational purpose





Refrigerator Handle



TV and Remotes



Keys and Keychains



Switches and Plugs



Kids Toys



Staircase Banisters



Oven Handle



Cupboard Knobs



Stove Knobs



Bin Handles



Taps



Commode Seats







Doorbells and Buzzers



Door Handles



Window Handles



Coffee Table



Dining Table



Couch



Stationary Items



Desktops



Curtains



Bed Linens



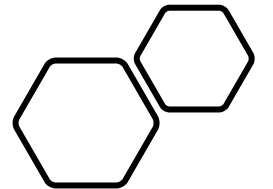
Door Mats





# ANTI-MICROBIAL SHIELD FOR YOUR PERSONAL GADGETS

- As per researchers more than 80% infectious diseases spread just by a touch.
- In order to prevent such situations, an Anti-microbial shield can be applied to all the personal gadgets.
- With a liquid glass shield coating, surfaces are also protected against micro scratches and dirt.







# AREA OF APPLICATION



- Smart phones and cases
- Computers/ laptops
- Keyboards & Mouse
- Chargers
- Tablets/iPad
- Headphones
- Smart watches
- Glass frames
- Tools & Appliances
- Car and its accessories
- DSLRs
- Decor items



Above mentioned list is only for representational purpose



Laptop Devices



Keyboard



Tablets and iPads



Charger and Cables



Mouse



Headphones



Smart Watches



Glass Frames





Keyboard



Tools



Electric Appliances



Car Accessories



Camera



Décor Items

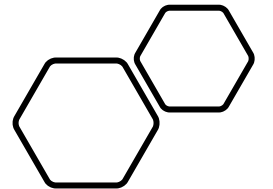






# ANTI-MICROBIAL SHIELD FOR RETAIL STORES

- Coating the daily use products with Anti-microbial coating is essential.
- **Warrior™** Coatings has come up with a range of products which provide coating barrier and resistance to Viruses, Bacteria, Fungus and Molds.
- Retail outlets demand such coatings to make every asset germ free and hence we serve you the right solutions.



# AREA OF APPLICATION

- **Trolleys**
- **Shopping Baskets**
- **Card Machines**
- **Counters**
- **Doors & Handles**
- **Escalators Handrails**
- **Freezers and Fridges**
- **Hand Dryers**
- **Lifts, Elevators**
- **Public Toilets**
- **Walls & Floorings**
- **Shelfs**

Above mentioned list is only for representational purpose





**Shopping Basket**



**Escalator Handrails**



**Door Handle**



**Supermarket Trolley**



**Cash Registers**



**Card Machines**







**Freezers and Fridges**



**Public Toilet Taps**



**Public Toilets**



**Hand Dryers**



**Touch Screen Display**



**Public Toilet Flush**



# ANTI-MICROBIAL SHIELD FOR WORKPLACE



- The surfaces which are in regular contact with people have to be made microbial free.
- The antimicrobial coating developed by Reinste is the permanent solution for making surfaces microbes free.
- This coating provides a shield and protects you from virus and other bacterial, fungal exposures.

# AREA OF APPLICATION

- **Computers/Devices**
- **Phones and Landlines**
- **Desk Surfaces**
- **Microwave / Water Filters/ Dispensers**
- **Office Stationary**
- **Vending Machines**
- **Toilet / sink/ mirrors**
- **Lifts, Elevators**
- **Keyboards & Mouse**
- **Bathroom Taps**
- **Curtains / Blinds**
- **Partition walls**
- **Carpets**
- **Floorings**

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**Computer/Devices**



**Microwave Handles**



**Phones and Landlines**



**Vending Machines**



**Office Stationary**



**Desk Surfaces**

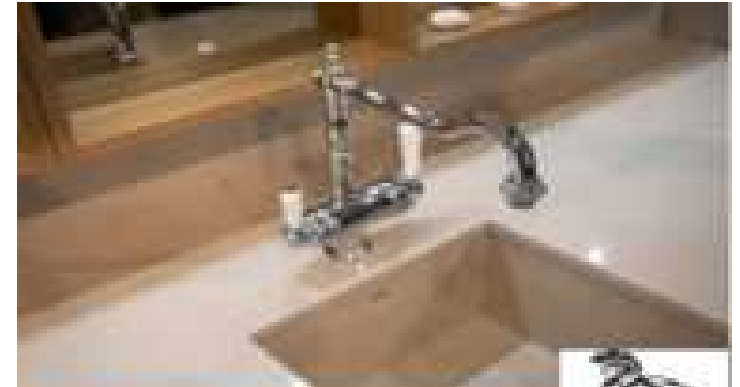




**Lifts and Elevators**



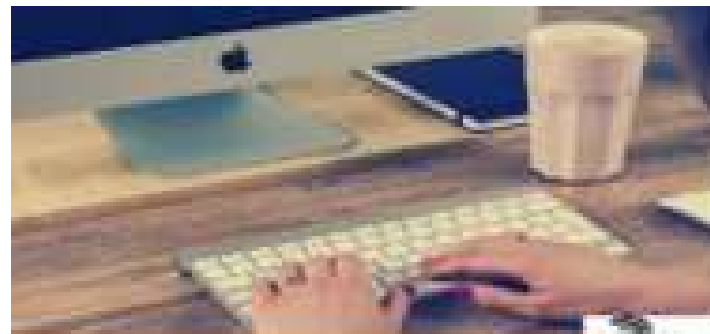
**Public Toilets**



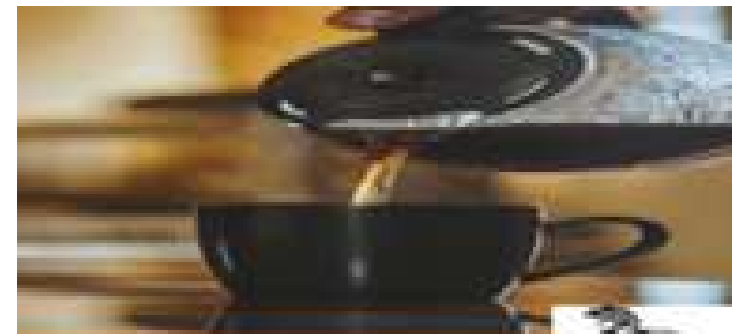
**Bathroom Taps**



**Mouse**



**Keyboard**



**Kettle Handles**

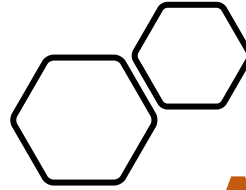


# ANTI-MICROBIAL SHIELD FOR YOUR RECREATIONAL CENTERS



- Touching surfaces at recreational centers may lead virus and bacteria attach to your body and can cause severe illness.
- Such places have maximum chance of mushrooming virus and bacteria.
- Many diseases caused by *Staphylococcus aureus*, *Salmonella enterica*, *E. coli* etc. can be prevented by using anti-microbial coatings.





## AREA OF APPLICATION



- **Yoga Mats**
- **Shopping Malls**
- **Gym Equipment's**
- **Cinema Theatres seats**
- **Carpets**
- **Curtains**
- **Restaurants/ Lounge/ Bars**
- **Table linen**
- **Glass & Wooden Partitions**
- **Floorings**

Above mentioned list is only for representational purpose



**Gym Equipments**



**Bowling Balls**



**Library**



**Shopping Malls**



**Bicycling**



**Yoga Mats**





**Restaurant**



**Travel ,Hotels**



**Outdoor Games**



**Indoor Games**



**Cinema Theatres**



**Disco Bars**



# ANTI-MICROBIAL SHIELD FOR HOSPITALITY

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- In order to protect areas which are highly used.
- These coatings can be used for a long period of time.
- They enhance the shine.





# AREA OF APPLICATION

- **Stairway**
- **Switches**
- **Tables and Chairs**
- **Door Knobs**
- **Toilet Flush**
- **Taps**
- **Toilet Seat**
- **Cupboard & Handles**
- **Bath Tubs**
- **Bathroom Accessories**
- **Mirrors/ Glass partitions**
- **Walls**
- **Carpets**
- **Wooden Flooring**
- **Bed, Linens**

Above mentioned list is only for representational purpose





**Stairway**



**Door Knobs**



**Switches**



**Toilet Flush**



**Tables and Chairs**



**Beds and Linen**



**Taps**





**Cupboard Handles**



**Bath Tubs**



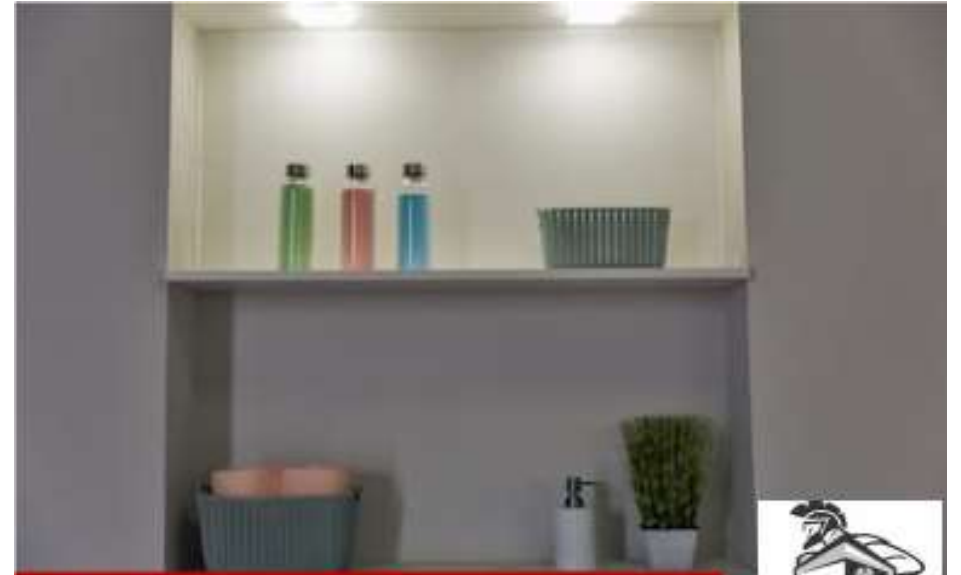
**Hotel Menus**



**Dishes**



**Cutlery**



**Bathroom Accessories**



**Television Remotes**





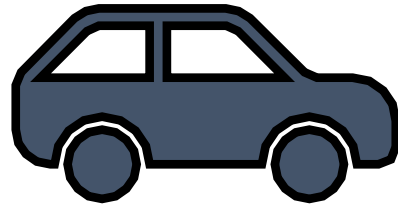
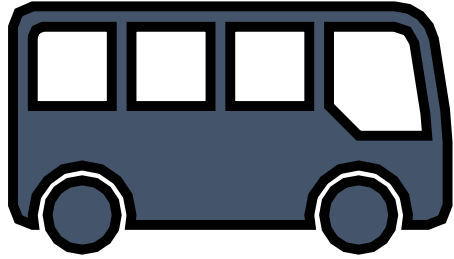
A blue Bentley Continental GT is shown from a front-three-quarter view, driving on a cobblestone street. The car's headlights are on, and its distinctive grille and alloy wheels are clearly visible. The background is a plain, light-colored wall.

# **ANTIMICROBIAL SHIELD FOR VEHICLE CARE**

- **The Antimicrobial coatings developed with Active Silver technology by Reinste is the permanent solution for the deadly microbes and the diseases caused by bacteria, fungi etc.**
- **Research have suggested that silver ions can eliminate microbe by damaging its cell membranes and making it “perforated” which tend to its irreparable damage.**
- **With a liquid glass shield coating, surfaces are also protected against micro scratches and dirt.**



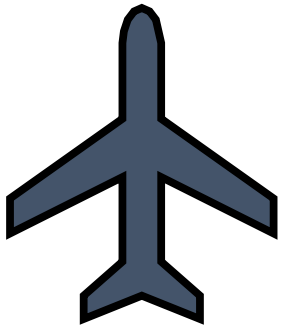
# AREA OF APPLICATION



- Car Door
- Windows
- Seat Belts
- Door Handle
- Steering
- Rear View Mirror
- Car Seats
- Car Control
- Car body

## Other public transports:

- Buses
- Motor bikes
- Cabs
- Trains, Metros
- Aircrafts
- Autos



Above mentioned list is only for representational purpose



**Door Handle**



**Car Door**



**Door**



**Steering**



**Rear View Mirror**



**Car Seats**



**Seat Belts**



**Car Control**







**Motor Bike**



**Bus Handles**



**Seats of Train**



**Car Body**



**Taxi**



**Interior of Flight**



# KEY FEATURES OF **Warrior<sup>TM</sup>** Smart Coatings

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**Hydrophobic (less spotting)**

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**Anti-static, less build-up of dust and dirt**

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**Anti-stick property**

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**High gloss & filling of micro scratches**

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**Smooth finish**

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**Easy2clean**

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**Highly Durable**

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**Quick and easy application**

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**Incredibly long-lasting**

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**Easier and faster cleaning**

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**Lower cleaning frequency**

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**Biodegradable**

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**With rain or water, the surface develops self-cleaning properties**

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Above mentioned list is only for representational purpose



# KEY FACTS

- ❖ Backed by Superior Ag+ technology
- ❖ Inhibits growth of bacteria, microbes and also deactivates Viruses\*.
- ❖ Active Silver particles can be integrated homogenously into all substrates as easily as usual dye pigments.
- ❖ Ag+ technology does not contain any unnecessary filler & is processable at high temperatures as the stability of the Ag particles are excellent even at temperatures above 300°C.
- ❖ Due to the different modes of action (reduction of germ adherence disturbance of the germs,, K+-metabolism and irreversible reaction with S containing amino acids) and due to the marginal Ag+-release, nanosilver does not induce or propagate bacteria resistance.
- ❖ AgPURE™ Silver is non-toxic to humans and animals.
- ❖ 99.9% of bacteria are eradicated within hours
- ❖ The antimicrobial effect does not decrease over a period of time even
- ❖ When exposed to UV light or subjected to harsh cleaning procedures.

\* As per published research literature in renowned peer reviewed international Journals

# Proven by Research and International Standards



Research indicates that bacteria develop resistance against various types of antibacterial products, but with the use of nanosilver technology this can be avoided as microbes cannot develop resistance against silver thus the products developed with the help of nanosilver technology can provide us long lasting protection to us without developing a resistance against microbes.

The efficacy of antimicrobial ingredient used to develop coatings can be verified by means of micro-biological tests. Nanosilver is certified according to international standards.

- ISO 22196:2007, JIS L1902:2002,
- DIN EN ISO 20743:2007-10
- SN 195921, ASTM G21 96, JIS Z 2911:1992
- Silver Leaching: 10993: 2002-17

## Testing

Nano Coatings provide antimicrobial activity to all applied surfaces. Coatings exhibits strong activity against all gram-positive and gram negative bacteria, even antibiotic-resistant strains, yeast and fungi. (Viruses can be inactivated by unbonded nanosilver particles). Coatings are long-term shield against antimicrobial growth. It is not a sterilizing agent and does not have long range effects.

# Warrior™ *Anti-microbial Coatings*

Name	Product Code	Variant	Coverage (SQ FT/ LT)	Pack Size (Litre)	Area	Application e.g.
<b>Warrior™ A</b>	RN-PW3-L RN-PW3-M RN-PW3-H	Slight, Significant Strong	100- 150	1,5,20	External	Metals, Glass, Ceramic, Wood, Stone and Plastics
<b>Warrior™ B</b>	RN-EW3-L RN-EW3-M RN-EW3-H	Slight, Significant Strong	300- 400	1,5,20	Internal/ External	All metals , Glass and Ceramic, Wood, Stone, Concrete, Painted Surface
<b>Warrior™ C</b>	RN-AW3-L RN-AW3-M RN-AW3-H	Slight, Significant Strong	100- 150	1,5,20	Internal	All metals , Glass and Ceramic
<b>Warrior™ D</b>	RN-EPW3-L RN-EPW3-M RN-EPW3-H	Slight, Significant Strong	1500-2000	1,5,20	Internal	All glass, ceramic and polished natural stone, hydrophobic and dirt repellent, can be spray coated or application by hand
<b>Warrior™ E</b>	RN-VW3-L RN-VW3-M RN-VW3-H	Slight, Significant Strong	1500-2000	1,5,20	External	All glass, ceramic and polished natural stone, UV stable, hydrophobic and dirt repellent , can be spray coated or application by hand
<b>Warrior™ F</b>	RN-FW3-L RN-FW3-M RN-FW3-H	Slight, Significant Strong	200- 300	1,5,20	Internal/ External	All fabrics and leather surfaces. Water resistant.
<b>Warrior™ G</b>	RN-FW3-L RN-FW3-M RN-FW3-H	Slight, Significant Strong	900- 1000	1,5,20	Internal/ External	All fabrics and leather surfaces. Water and dirt repellent

Please consult our technical team for choosing the right product for your surfaces and needs.

# Warrior™ *Anti-microbial Cleaners/ Coatings*



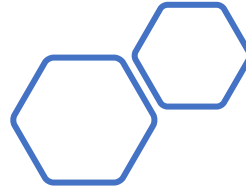
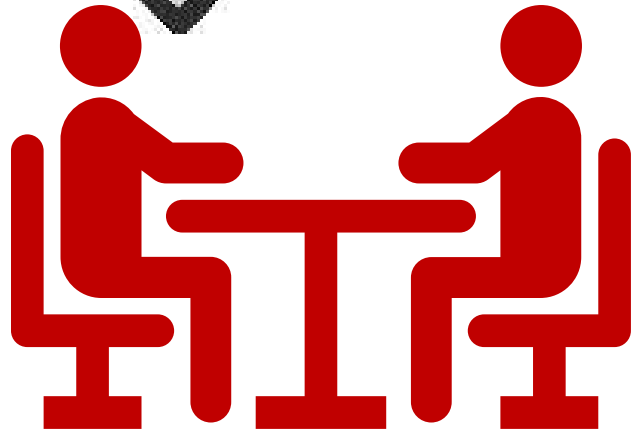
*Antimicrobial Surface Cleaners & Coatings are also available in 5 Lt & 20 Lt pack size*



# Technical Guidance & Support



- There are numerous surfaces and many scenarios for achieving the right kind of anti-microbial Coatings.
- Don't hesitate to call or write to our Technical consultants to get the right product information and support for your surfaces and needs.
- No one product fits all surfaces and no two needs are same, we are there to evaluate and understand your requirements and suggest you the best possible solution based on your needs and constraints.
- Even if you don't find a right product in this presentation or have queries, do contact us as our teams are working for you to find and provide the right anti-microbial solutions continuously.



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