



SUR-Viral™ C19

(Multi-Utility Antiviral Coat for External Use)

SUR-Viral C19 is a speciality product which reduces viral activity upto 99.9% when applied on any surface like leather products, textile products, masks, surgical non-wovens, gloves, car steering, table top, door knobs etc.,

The name **SUR-Viral C19** is coined to imply the SURVIVAL from VIRAL attack.

ZSIVIRA is working, co-founding and sponsoring many projects on Pathology studies towards the cause of social well-being since SARS viral outbreak.

Recognising the urgent need of a Virus Killing product during this CORONA PANDEMIC, for the well being and safe living of people, **ZSIVIRA**, now with the backup of its rich knowledge obtained from its previous experience in Virology and Pathology has come out with a speciality Antiviral Treatment product which can be used in surface coating of variety of products.

SUR-Viral C19, is made with unique “NOVEL DOCKING TECHNOLOGY”.

This technology docks the Silver Ion molecule by encapsulating it within lipid bilayers which enables the sustained release and even-spread upon using, thereby killing above 99% and upto 99.9% of the Virus almost within 2 hours of contact on the coated or treated surface.

The virus is actually captured, capsuled and killed on the surface itself. Hence penetration into the surface or contacting the human skin is eliminated. May be it can be termed as

“**VIRAL SLAUGHTER™**”.

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The above information on application on leather is given in accordance to the best of our knowledge and our lab applications. As the usage of the product by the consumer is not under our control, we are not liable for any sort of claims or reimbursements. The product is given without any guarantee/warranty in connection to end use.

ZSIVIRA CHEMIE MERK PRIVATE LIMITED

www.zsiviraindia.com info@zsiviraindia.com

SUR-Viral™ C19

(External Antiviral Coat for Multipurpose Use)

<i>Technology Used</i>	<i>Novel Docking Technology</i>
<i>Igredients</i>	<i>Silver Ions encapsulated in a lipid bilayer</i>
<i>Appearance</i>	<i>Off-White Viscous fluid</i>
<i>pH 10%</i>	<i>5.0 to 6.0</i>
<i>Charge</i>	<i>Nonionic</i>
<i>Solubility in Water</i>	<i>Soluble as milky emulsion</i>
<i>Storage</i>	<i>Keep in room temperature from 15°C to 40°C</i>

***SUR-Viral C19** being a nonionic product is normally compatible with many auxiliaries and coating chemicals*

*It is recommended to make a solution of **SUR-Viral C19** with water and check it in small lab scale for compatibility with other Coating chemicals that are intended to be added with it for coating.*

Usage Quantities :

The coating quantity to be used, depends on the type of surface to be quoted.

Recommendations are given based on our R&D and field experience, so that the virus could be removed completely.

Application related queries can be sent to surviral@zsiviraindia.com where our technical people will come out with details on your queries.

*Slight colour change and change in viscosity of **SUR-Viral C19** is possible on prolonged storage. But it will not affect the character of the product and its usage.*

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Product Characteristics:

- ❖ *The actively DOCKED ingredients of **SUR-Viral C19** is tested against most common flues, Influenza A virus H1N1, H3N2 and SARS stains.*
- ❖ *The Product is tested in Germany based Lab and proved to eradicate different types of Virus upto 99.9% as per International virology Test method with protocol ISO 18184:2019, ATCC VR-1679 standard.*
- ❖ *After coating on the surface, the product deactivates the existing virus and also kills the virus which comes into contact with the coated surface by collapsing the core cells of the virus. By this way, it becomes impossible for the virus to make contact with human cells as it is killed even before it reacts with human cells.*
- ❖ *The product passes “Human Skin Patch Test on in-house testing. It is non-irritant and doesn’t have any negative impact on human skin and body. It will not affect the Natural friendly Bacteria present in Human skins. Normally, “Human Skin Patch Test” is made for cosmetic products, which comes directly into contact with human skin and body. **ZSIVIRA** made this test to double ensure the safety of **SUR-Viral C19** usage, which many times has direct interface with human skin and body.*
- ❖ *As the key raw material used in manufacturing **SUR-Viral C19** is laboratory grade quality, the product is superior in quality, application and longevity, when compared to the industrial grade antiviral products generally produced and marketed widely.*
- ❖ ***SUR-Viral C19** should not be compared by any means with normal fungicides, bactericides, normal sanitizers and normal anti-bacterial liquids and paper wipes as it is a SILVER ION - LIPID based super speciality product with virus killing property .*

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Leather Application:

- ❖ ***SUR-Viral C19** being Nonionic, is compatible with most finishing chemicals used in top-coat of leather.*
- ❖ *Normally it is recommended to dilute 50 grams of **SUR-Viral C19** in one litre of water for top coat and to be sprayed 3xCOATS both in grain and flesh side.*
- ❖ *It can also be added with topcoat wax and silicone and sprayed on the surface.*
- ❖ *No washing or re-drumming of the leather should be made once **SUR-Viral C19** containing spray coat is completed.*
- ❖ *It is recommended to take sample trials before using in white and pastel colours to find out occurrence of any colour migration / colour change after coating as we don't know about its compatibility with the pastel pigments or colourings used.*

Product Detailing on Post Application:

***SUR- Viral C19** when coated on natural leather as an antiviral coat ensures that the virus will not live on the protected surface for long time. May be additional coat can be done after several months of storage or usage of the leather or leather product. The longevity of the viral protection entirely depends on the usage and maintenance of the leather and leather product.*

For long-lasting protection, avoid washing the leather product, so that the coat remains for longer time to inhibit virus.

Recommended for Garments, Shoes, Linings, Bags, Upholstery, Belts, Wallets and Saddlery.

Coating on the natural leather doesnot mean and guarantee that humans are protected from direct Viral attack. The antiviral property is for the coated leather and leather product only, which is meant to kill the viruses mentioned in this brochure that gets deposited on the leather surface.

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Textile Application

It is recommended that the product to be used to the required percentage of the weight of the fabric/textile. The quantity arrived to be diluted with the required amount of water to soak the textile/fabric in case of house hold and to the necessary amount of water normally used in the process in case of textile producing units.

In case of rinsing Method :

Normal Household and Hospitality Industry use :

It is recommended 5 to 10% on the weight of the fabric, bedsheets, linings, textile curtains, carpets, room furnishings

Medical Use:

It is recommended 10 to 15% For Using in Face Masks, Air filters, Medical Non-wovens like Surgical Gowns, drapes, scrubs, PPE Body covers.

In case of spray method:

Normal Household and Hospitality Industry use :

*Dilute 50 to 100 grams **SUR-Viral C19** per one Liter of water and spray 2 coats on both sides of the fabric and allow to dry.*

Medical Use:

*Dilute 100 to 150 grams **SUR-Viral C19** per one Liter of water and spray 2 coats on both sides of the fabric and allow to dry.*

Normally the Antiviral effect withstands upto 15 normal washes (Test Procedure ISO6330 3G).

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General Applications

***SUR-Viral C19** finds many ANTIVIRAL Protection application in our day to day life.*

*A 5% solution of **SUR-Viral C19** is prepared with water (50 gms in one litre of water approx) and can be applied by wiping or spraying on the below surfaces :*

- 1) DOOR KNOBS/LOCKS*
- 2) CAR STEERING*
- 3) TABLE TOPS where there is more possibility of human interface*
- 4) FURNITURES*
- 5) MOTOR BIKE HANDLE BARS*
- 6) FRONT DOORS*

In case of application by wiping, use proper handgloves and rinse the diluted solution in a sponge and apply to the surface to be coated completely and allow it to dry well before usage.

*In case of White and Pastel coloured coating objects, check for change in colour of the surface, by coating a small/tiny portion of the surface. It cannot be guaranteed for colour migration as we don't know the compatibility of **SUR-Viral C19** on the surface contact.*

Disclaimer:

*Coating on leather, textile or any other surface that is coated with **SUR-Viral C19** doesnot mean and guarantee that humans are protected from direct Viral attack. The antiviral property is for the coated surface only, which is meant to kill the viruses mentioned in this brochure that gets deposited on the coated surface.*

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