Background

Likewise to the world, the current pandemic situation has posed a huge challenge for the wood panel and decorative surface industry to drive demand from its consumers. During the lockdown period, Centuryply employed its entire research and development unit to work on and come out with a sustainable solution for its customers by addressing one of the key issues faced by them – the fear against VIRUS. While technology had enabled Centuryply much earlier to address other kinds of microbes like fungus and bacteria, this challenge took days of back breaking work, research and tedious development to use a form of nano technology grained on the surface of plywood and laminates that enables them to kill any virus that comes in contact with it.

This indigenous effort is a stamp of new India's resolve to fight adversity with cutting-edge technology – A testimony to a Self-Reliant India

What is Virokill and how does it work?



Centuryply uses specially designed Nanoparticle based Self Doctoring Surface Treatment against microorganisms through AAAA (A-4) complete safety protection mechanism, for the manufacturing of its plywood and laminates. These products are by nature, Anti-Microbial, Anti-Fungal, Anti-Bacterial and .Anti-Viral. This technology has been branded as Virokill

The highly activated and energized Nanoparticles physically rupture and kill microbes that come in contact with it through contact killing mechanism, keeping the surfaces safe and hygienic at all times

Is Virokill certified by any independent agency?

The name of the testing lab is Biotech Testing Services (BTS) in Mumbai, which is one of the renowned testing laboratories for these kinds of material properties. The following tests were carried out as per the standards: (1) Antimicrobial Efficacy Test (both Antibacterial Efficacy and Antifungal Efficacy of specified microbes) has been done as per JIS Z 2801:2010 international standard. (2) Antiviral Efficacy Test of specified virus has been done as per ISO 21702:2019 international standard.

The following testing standards were followed to carry out the tests.

The Test Results (attached) certify that Century Laminates and Centuryply products have 99.99 % efficacy against virus. Virus coming in contact with Century Laminates and Century Plywood surfaces would have their cell walls ruptured and will be killed resultantly.

The process of the killing mechanism starts instantly and it may take a few minutes or a few hours to complete it, depending upon the local configuration. However, it will not kill any viruses in the surroundings of the furniture. Also mishandling of the product like exposure to excessive sunlight, excessive temperature, humidity moisture may affect the efficiency of the performance.

The specific type of nanoparticle which is used by Centuryply in their product is in the approved list of materials against viruses of U.S. Environmental Protection Agency (EPA). This specific nanoparticle is also certified by the Ministry of Health and Family Welfare, Government of India through the Department of Science and Technology (DST) against virus protection.

Does Virokill work against COVID?

While, a) The test certifies killing of 99.99% virus and b) It is about virus which is a positive-sense single-stranded RNA Virus close to COVID-19 Virus as a category and c) There are many published scientific papers and reports available which support that the specific nanoparticle being used in manufacturing is strongly effective against many viruses. However, there is no test specifically available as of now for materials to be tested for COVID19. Hence, Century Laminates & CenturyPly is not in a position to claim that it can be used as a .form of protection against COVID-19

Does surface cleaning deplete the properties of Virolailla

Our prescribed surface cleaning methods shall not deplete the

of Virokill?

Is it hazardous to health?

properties of Virokill.

No, Virokill is completely safe and doesn't have any health hazards.

Are all other properties retained along with ViroKill properties?

Yes, all other product properties as applicable will be retained.

What
CenturyPly &
CenturyLaminates
products swill be
using this
technology?

Currently, Centuryply is using specific nanoparticles in the manufacturing of the following:

- Plywood- Architect ply/Architect plus, Club Prime/710 Plus, Bond 710/Pro710, WIN MR, IS:710 Marine
- Blackboards- Club Prime, Bond 710,
 Win MR

CenturyLaminates will be using this in the following:

Imm Laminates

All Century Veneers

How long will the effects of Virokill treatment remain?

Nanoparticles are effective throughout the lifetime of the furniture as they are embedded in the polymer matrix system, unless and until the surface is not chemically and physically damaged.

Is the treatment done on the surface or throughout the product construct?

It is a surface treatment of the products.

Is Virokill thermostable? What is the effect of moisture and direct sunlight on it?

Yes, it is thermostable. This surface treatment is non-leachable and normal exposure to humidity, moisture and sunlight does not affect its antiviral properties. However, any structural damage of surfaces by chemical and physical treatment may affect the property.

Does it cover anti-bacterial and anti-fungal properties?

Yes, Viro-Kill has additional anti-bacterial and anti-fungal properties.

Is it safe for any interior usage?

Yes, Viro-Kill is completely safe for interior usage.

Is it safe for human contact?

Yes, it is completely safe for human contact.

Does the treatment react to external polishing and painting?

No, it doesn't react to external polishing and painting.

Does Virokill have any warranty cover in line with the product warranty?

Viro-Kill is a special treatment and doesn't affect the functioning of the product so the existing standard warranty terms on manufacturing defects are applicable.

How is Virokill treated CenturyPly plywood different than any existing CenturyPly plywood?

Any CenturyPly plywood manufactured after 1st July 2020 will have this property.

Is it safe if a child comes in contact with this product?

vvicii cilis product.

Since how long has the Virokill properties been there in Century Laminates?

The manufacturing of Century Laminates along with Silver Nano Technology has been in practice for the last 5 years. Thus, CenturyLaminates have had anti-bacterial and anti-fungi properties for the last 5 years. The recent R&D efforts and the test results corroborate that now the product offers additional Virus killing properties as well.

Yes, it is completely safe and doesn't have any health hazards