



Soon&Soo V-Guard



Antiviral

- Suppression of bacteria and viruses in space



Few hazardous heavy metal

- Eco-friendly with few harmful heavy metals



Stain resistance

- Hard film that is not easily contaminated



Soon&Soo V-Guard

Multi-purpose water-based interior paint Antiviral and antibacterial paint

‘Soon&Soo V-Guard’, a multi-purpose water-based interior paint with strong antiviral and antibacterial properties, is widely applied to general houses and commercial facilities, as well as hospitals, kindergartens and daycare centers, and has special functional antiviral and antibacterial properties that can increase the resistance to bacteria and viruses in a space.



CORNING
GUARDIANT™

Corning® Guardiant® is an antiviral and antibacterial additive developed by Corning in the US and registered with the US Environmental Protection Agency (EPA).

Antiviral, antibacterial, antifungal, low VOC, low odor, BTX free and any harmful plasticizers not used



First time in Korea!! Paint tested and verified with actual COVID-19 viruses

Soon&Soo V-Guard

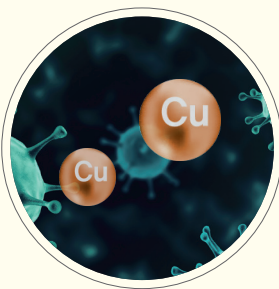


Soon&Soo V-Guard is an excellent antiviral paint that has been proven to kill viruses, such as COVID-19 viruses and Influenza A, and uses proven and safe raw materials(Corning® Guardiant®) registered with the US Environmental Protection Agency(EPA). In particular, it is a low-odor, water-based paint that can be applied on a variety of materials due to its excellent adhesion and excellent stain resistance.

Use

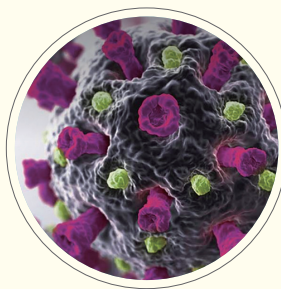
Concrete, mortar, gypsum board, internal wood, enamel/lacquer old paint repair and other various spaces requiring virus resistance

Characteristics



Use of raw materials registered with the US Environmental Protection Agency(EPA) that have been tested for stability

Antiviral effects lasting for at least 5 years as long as the coating is not damaged



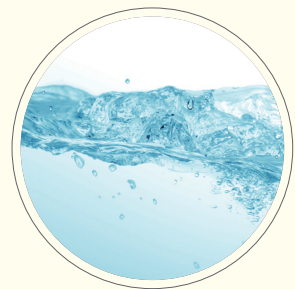
Excellent antiviral and antibacterial

Verified destruction of more than 99% of COVID-19 viruses within 30 minutes



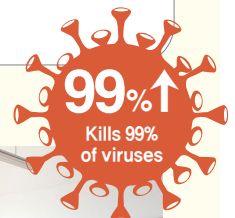
Applicable to a variety of substrates due to its excellent adhesion.

It can be applied on various substrates including concrete, internal wood, enamel/lacquer old coatings, etc.



Low-odor, water-based paint with few harmful heavy metals

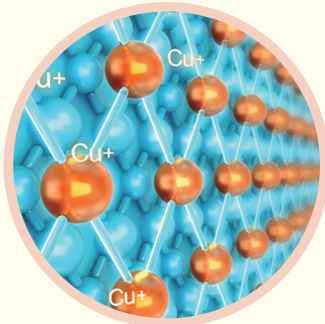
Creation of a safe and healthy space with an eco-friendly water-based product



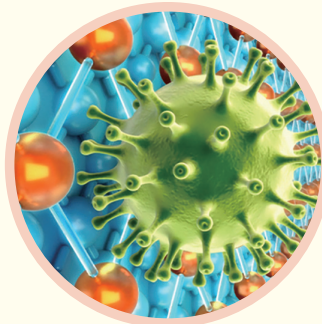
Principle of virus destruction

V-Guard emits antiviral copper ions in glass ceramic powder for five years to destruct viruses that come into contact with the coating.

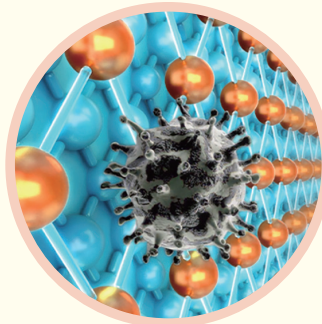
- When viruses in the air adhere to the coating, copper ions in the coating attack them.
- Copper ions destroy virus epithelia or penetrate into and kill viruses.
- Copper ions exudes stably for at least five years as long as the coating is not damaged.



Step 1
Apply Soon&Soo V-Guard



Step 2 Copper ions attack viruses on the coating



Step 3
Kill viruses

Powerful antiviral and antibacterial effect!
Destruction of COVID-19 viruses (first direct test conducted in South Korea) and Influenza A verified!
Antibacterial and antifungal performance approved

The verification of the effects of destruction of COVID-19 and Influenza A viruses for Soon&Soo V-Guard has been completed by KR Biotech's Disease Control Laboratory and Korea Research Institute of Bio Medical Science, both of which are professional virus organizations. The antibacterial and antifungal effects have also been approved by the Korea Conformity Laboratories (KCL).

Test Report			
Personnel	Lee Kyungwon	Tel. No.	82-31-467-6092
Client	Affiliation NOROO Paint & Coatings Co., Ltd.	E-mail	kyhlee@noroo.com
	Address 251, Baidan-ro, Manan-gu, Anyang-si, Gyeonggi-do, 13177, Republic of Korea		
Request	Viral Activity Test		
Product	Soon&Soo Anti-virus V-GUARD		
Purpose of Use	Water-based primer for the interior of the building		
Test Item	COVID-19 (SARS-CoV-2)	Test Method	ISO 21702
Test No.	KR-2021-073-NOROO	Call Line	Vans E&S
Sample State	Paper (coated with the product)	Test Period	2020.12.09-12.14
Reaction Time	30 min, 60 min	Titration	CPE
Test Temperature	Room Temperature (Approx. 23°C)	Tester	Hansan Cho
Test Result			
Product Name	Virus Titer (TCID ₅₀)	Treatment time	Control Virus Titer (TCID ₅₀)
Soon&Soo Anti-virus V-GUARD	2.1X10 ⁶	30 min	5.62X10 ⁶
		60 min	5.62X10 ⁶
			2.230
			99.438%
Result: The paper coated with Soon&Soo Anti-virus V-GUARD of NOROO Paint & Coatings Co., Ltd. used in the test showed 99.438% of the viral effect on 30, 60 minutes contact time condition against SARS-CoV-2.			
December 24, 2020 Test Manager: Young Bong Kim KR BIOTECH Co., Ltd.			

COVID-19 viruses killing test

