

VIRUSGUARD
Updated July'20


VirusGuard is specially formulated with anti-viral and anti-bacterial performance. It is scientifically proven to be effective against Human Coronavirus which causes respiratory infections in human; Influenza A Virus which causes swine flu (H1N1); and Coxsackievirus A16 which causes Hand Foot and Mouth Disease (HFMD). Besides that, it is also effective against many types of bacteria such as E. coli, MRSA and Staphylococcus Aureus.

Product Features:

- Anti-viral (effective against harmful viruses such as Human Coronavirus, H1N1 and Coxsackievirus A16)
- Anti-bacterial (effective against common bacteria such as E. coli, MRSA and Staphylococcus Aureus)
- Anti-fungus and mold property
- Superior washability
- Near zero VOC during application and after painting
- Ammonia-free
- Non-toxic (does not contain lead, mercury and heavy metals)
- Environmentally friendly paint – Certified by Singapore Green Label Scheme
- Long lasting colors
- Highly recommended for use on interiors such as childcare, kindergarten, clinics, hospitals, medical facilities and commercial buildings such as offices and warehouses.

NOTE: Nippon Paint VirusGuard serves to reduce the transmission of viruses and bacteria through inactivation process on painted surface. It does not warranty users' immunity to viruses and bacteria.

Paint Type	Product Type	Finishing	Recommended Substrate	Pack Size
Water based	Interior	Mid Sheen	Masonry, brick, plastering substrate and fibre board	1 Litre, 5 Litres

Composition

Pigment	: Mainly Titanium Dioxide, Iron Oxide, Carbon Black, Organic Pigments and Mineral Extender
Binder	: Pure Acrylic Emulsion
Thinner	: Water

Technical Data

Drying Time	: Touch Dry : 30 minutes (Dependent on temperature and humidity)
	: Hard Dry : 1 hour (Dependent on temperature and humidity)
Recoating Time	: 2 hours (Dependent on temperature and humidity)
Dry Film Thickness	: Around 30 µm per coat (based on substrate condition)
No. of Coats	: 2 coats
Theoretical Coverage	: 10 – 12 m ² per litre per coat (Actual coverage is dependent on substrate condition, application method, application condition and finishing appearance)
Volume Solid	: ~ 40%
Shelf Life	: Up to 36 months in tight sealed container

Application Method

Brush / Roller	: Dilute the paint with not more than 5% of water. Preferable not dilute for best performance.
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Recommended Coating System

Sealer / Primer	: 5200 Interior Wall Sealer / 5400 Wall Sealer / Acrylic 5170 Wall Sealer / Hi-Bond Wall Sealer (on powdery or skim-coated surface)	: 1 Coat
Top Coat	: VirusGuard	: 2 Coats

Surface Preparation

Remove all loose, defective paint or powdery residues, loose chalk, dust and foreign matter. Repair cracks, uneven surfaces with Multi-purpose Joint Compound or suitable fillers. Smoothen the putty / filler areas with sand paper. Surfaces to be painted must be cleaned thoroughly and dry, it must be free from dirt, grease and other foreign matters. Allow all surfaces to dry completely prior to painting. Avoid painting when the moisture content and alkalinity of the walls are still high. (Recommended painting specification requires the moisture content of the walls to be below 16% measured by protimeter and alkalinity of the walls to be below pH9.) Spot prime with Nippon Interior Wall Sealer.

Cleaning

Clean up equipment with water immediately after use.

Safety Precautions

- Keep container tightly closed and keep out of reach children or away from food and drink.
- Ensure good ventilation during application and drying.
- When applying paint, it is advisable to wear eye protection.
- In case of contact with eye, rinse with plenty of water immediately and seek medical advice.
- Remove splashes from skin by using soap or water.
- Paint must always be stored in a cool place.
- When transporting paint, care must be taken. Always keep container in a secure upright position.
- Dispose off any paint waste in accordance with the appropriate Environment Quality Regulations.

Note

* Theoretical Coverage is based on a mathematical formula

$$\left[\frac{\text{Volume Solid \%} \times 10}{\text{Dry Film Thickness}} \right] = \text{m}^2/\text{lit}/\text{coat}$$

and does not consider LOSS FACTORS.

Variables like porosity of substrate, application method, dilution ratio, dry film thickness, opacity and so on will affect the loss factor and can vary from 30% - 50% or even more.

The above information is given to the best of our knowledge based on laboratory tests and practical experience.

However, since we cannot anticipate or control the many conditions under which our products may be used, we can only guarantee the quality of the product itself.

We reserve the right to alter the given without prior notice.