

**5100 WALL SEALER**
*Updated July'25*


5100 Wall Sealer is a water-based environmentally friendly wall sealer. It is specially formulated to protect the finishing coats against the effects of mild alkalinity and efflorescence.

**Product Features:**

- Good efflorescence resistance
- Low VOC and environmentally friendly
- Good for new walls and repainting
- For exterior use

Paint Type	Product Type	Finishing	Recommended Substrate	Pack Size
Water based	Exterior	Sheen	Masonry, brick, plastering substrate and fibre board	5 Litres, 18 Litres

**Composition**

Pigment	: Titanium Dioxide and Mineral Extender
Binder	: Styrene Acrylic Emulsion
Thinner	: Water

**Technical Data**

Drying Time	: Touch Dry : 15 minutes (Dependent on temperature and humidity)
	: Hard Dry : 1 hour (Dependent on temperature and humidity)
Recoating Time	: 2 hours minimum (Dependent on temperature and humidity)
Dry Film Thickness	: Around 30 µm per coat
No. of Coats	: 1 coat
Theoretical Coverage	: 10 – 12 m <sup>2</sup> per litre per coat (Actual coverage is dependent on substrate condition, application method, application condition and finishing appearance)
Volume Solid	: ~ 38%
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**
**Emulsion Paint**

Sealer / Primer	: 5100 Wall Sealer	: 1 Coat
Top Coat	: Nippon Paint Exterior Products	: 2 Coats

**Tilelac Textured Coating**

Sealer / Primer	: 5100 Wall Sealer	: 1 Coat
Textured Coat	: Tilelac Ema Base	: 1 Coat
Top Coat	: Nippon Paint Exterior Products	: 2 Coats

**Surface Preparation**

Remove all loose, defective paint or powdery residues, loose chalk, dust, fungus, algae and foreign matter. Treat any areas affected by fungus growth with Fungicidal Wash Solution. Repair cracks, uneven surfaces with Nippon CrackREPAIR 1000 Compound or suitable exterior grade fillers. Smoothen the 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 5100 Wall Sealer.

**Cleaning**

Clean up equipment with water immediately after use.

**Certificates**

Complies to Singapore Green Label and SIRIM Eco-Label

*Certified by: Singapore Environment Council (SEC) and SIRIM QAS*

**Tests**

1. **ASTM D2486** on Wet Scrub Resistance, tested in-house
1. **ASTM D 3359** on Standard Test Methods for Measuring Adhesion by Tape Test, tested in-house
2. **MS 134: 2007** on Specification for Latex Emulsion Paint for Exterior and Interior Use
3. Alkaline and Efflorescence based on In-house test method
4. **LEED v4.1 EQ Credit: Low-Emitting Materials: Paints and Coatings** on VOC Emissions Evaluation
5. **SGLS Category 032** on Singapore Green Label
6. **ECO 019:2012** on SIRIM ECO label

**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.

**Disclaimer**

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Users are encouraged to consult Nippon Paint for specific guidance on the suitability of this product for their intended use and application method.

In case of discrepancies between language versions, the English (United Kingdom) version shall prevail.