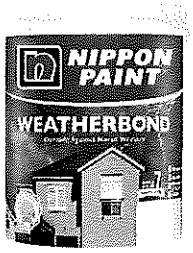
NIPPON PAINT **TECHNICAL DATA SHEET**

WEATHERBOND

Updated Feb'20



Weatherbond is a pure acrylic-based paint with non-added lead and mercury which is specially formulated for exterior walls. This premium exterior emulsion is formulated to provide at least 7 years' protection against fungus and algae growth, chalking and flaking.

Product Features:

- Durable against harsh weather
- Tougher resistance against dirt, fungus, algae, flaking and efflorescence
- Peel, flake, fade & chalk resistance
- UV protection for longer-lasting colours
- No added lead or mercury
- 7 years' protection
- Approved by SIRIM to Malaysian Standard MS 134:2007

Paint Type	Product Type	Finishing	Recommended Substrate	Pack Size
Water based	Exterior	Low Sheen	Masonry, brick, plastering substrate and fibre board	1 Litre, 5 Litres, 15 Litres, 18 Litres

Composition

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

Technical Data

Drying Time	: Touch Dry : 20 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
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	: ~ 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.

Recommended Coating System

Sealer / Primer	: 5100 Wall Sealer / Advance 8000 Wall Sealer / Expresskote Sealer / Acrylic 5170 Wall Sealer / Hi-Bond Wall Sealer (on powdery or skim-coated surface)	: 1 Coat
Top Coat	: Weatherbond	: 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 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 Nippon Exterior 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

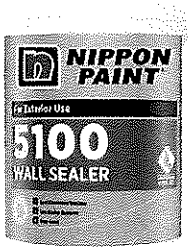
$$\left[\frac{Volume\ Solid\ \%\ x\ 10}{Dry\ Film\ Thickness}\right] = m^2/lit/coat$$

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.

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5100 WALL SEALER

Updated Feb'20



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

Product Features:

- Good efflorescence resistance
- Good for new walls and repainting
- For exterior use

Paint Type	Product Type	Finishing	Recommended Substrate	Pack Size
Water based	Exterior	Mid 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^2 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.

Recommended Coating System

Emulsion Paint

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

Tilelac Textured Coating

Sealer / Primer	: 5100 Wall Sealer	: 1 Coat
Textured Coat	: Tilelac Ema Base	: 1 Coat
Top Coat	: Nippon 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 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.

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

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

and does not consider LOSS FACTORS.
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NIPPON PAINT **TECHNICAL DATA SHEET**

SUPER MATEX

Updated Feb'20



Super Matex is an acrylic copolymer emulsion paint. It is specially formulated to provide a very smooth matt finish for interior walls. It is specially formulated for economical needs.

Product Features:

- Smooth matt finish
- Fungus resistance

Paint Type	Product Type	Finishing	Recommended Substrate	Pack Size
Water based	Interior	Matt	Masonry, brick, plastering substrate and fibre board	7 Litres, 18 Litres

Composition

Pigment	: Mainly Titanium Dioxide, Iron Oxide, Carbon Black, Organic Pigments and Mineral Extender
Binder	: Acrylic Copolymer
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 (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	: ~ 33%
Shelf Life	: Up to 36 months in tight sealed container

Application Method

Brush / Roller	: Dilute the paint with not more than 10% of water for 1st and 2nd coat.

Recommended Coating System

Sealer / Primer	: 5200 Wall Sealer / 5300 Basecoat Sealer / 5400 Wall Sealer / Acrylic 5170 Wall Sealer / Hi-Bond Wall Sealer (on powdery or skim-coated surface)	: 1 Coat
Top Coat	: Super Matex	: 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

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

and does not consider LOSS FACTORS.
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NIPPON PAINT

TECHNICAL DATA SHEET

5300 BASECOAT SEALER

Updated Feb'20

5300 Basecoat Sealer is acrylic copolymer water-based basecoat for interior walls. It is specially formulated for interior walls to gives good hiding and build.

Paint Type	Product Type	Finishing	Recommended Substrate	Pack Size
Water based	Interior	Matt	Masonry, brick, hard / soft board, asbestos	20 Litres

Composition

Pigment	: Titanium Dioxide and Mineral Extender
Binder	: Acrylic Copolymer 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 35 µm per coat
No. of Coats	: 1 coat
Theoretical Coverage	: 8 – 10 m^2 per litre per coat (Actual coverage is dependent on substrate condition, application method, application condition and finishing appearance)
Volume Solid	: ~ 31%
Shelf Life	: Up to 36 months in tight sealed container

Application Method

Brush / Roller : Dilute the paint with 10% of water for 1st and 2nd coat.

Recommended Coating System

Sealer / Primer	: 5300 Basecoat	: 1 Coat
Top Coat	: Super Matex / Q-Lite / Easycoat / Super Vinilex 5000 Emulsion / EasyWash / Vinilex Fresh Anti-Bacterial	: 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 5300 Basecoat.

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

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

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.

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9000 GLOSS FINISH

Updated Sept'19



9000 Gloss Finish is an oil-modified alkyd enamel paint. It is easy to apply and forms a smooth, tough paint film which has excellent gloss, fungus resistance and durability. Approved by SIRIM to Malaysian Standard MS 125 : 1995

Product Features:

- Good durability
- Fungus resistance
- Excellent gloss

Paint Type	Product Type	Finishing	Recommended Substrate	Pack Size
Solvent based	Interior & Exterior	High Gloss	Wood and Metal	1 Litre, 5 Litres, 15 Litres

Composition

Pigment	: Mainly Titanium Dioxide, Iron Oxides, Carbon Black, Organic Pigments
Binder	: Soya Bean Oil modified Long Oil Alkyd
Thinner	: White Spirit

Technical Data

Drying Time	: Touch Dry : 2 hours (Dependent on temperature and humidity) : Hard Dry : 8 hours (Dependent on temperature and humidity)
Recoating Time	: 8 hours (Dependent on temperature and humidity)
Dry Film Thickness	: Around 30 - 35 µm per coat (based on substrate condition)
No. of Coats	: 2 coats
Theoretical Coverage	: 9 - 11 m^2 per litre per coat (Actual coverage is dependent on substrate condition, application method, application condition and finishing appearance)
Volume Solid	: ~ 58%
Shelf Life	: Up to 36 months in tight sealed container

Application Method

Brush / Roller	: The paint is ready for use after thorough stirring. If necessary, thin with 5% of General Purpose Thinner.
Conventional Air Spray	: Dilute the paint with 15% of General Purpose Thinner.
Airless Spray	: The paint is ready for use after thorough stirring.

Recommended Coating System

Wood

Sealer / Primer	: 9000 Aluminium Wood Primer	: 1 coat
Undercoat	: 9000 Undercoat / Economy Undercoat	: 1 coat
Top Coat	: 9000 Gloss Finish	: 2 coats

Steel / Iron

Sealer / Primer	: Red Oxide Primer	: 1 coat
Undercoat	: 9000 Undercoat / Economy Undercoat	: 1 coat
Top Coat	: 9000 Gloss Finish	: 2 coats

Aluminium / Galvanized Iron

Etching Primer	: Etching Primer 120 / Galvaprimer	: 1 coat
Sealer / Primer	: Red Oxide Primer	: 1 coat
Undercoat	: 9000 Undercoat / Economy Undercoat	: 1 coat
Top Coat	: 9000 Gloss Finish	: 2 coats

Surface Preparation

Wood

Surface must be dry and free from dirt, grease and other contaminants. Smoothen surface with sandpaper and then clean off and dry. The scraped areas should be spot-primed using an undercoat for wood surfaces.

Metal

Surface must be dry and free from dirt, grease and other contaminants. Ferrous substrate should be sanded or wire-brushed to remove millscales and rust. Clean off dust and dry. The scraped areas should be spot-primed using a primer for metal.

Cleaning

Clean up equipment with thinner 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 any paint waste in accordance with the appropriate Environment Quality Regulations.

Note

* Theoretical Coverage is based on a mathematical formula

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

and does not consider LOSS FASTORS.
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.

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NIPPON ZINC PHOSPHATE PRIMER FD

Updated July'20

NIPPON ZINC PHOSPHATE PRIMER FD is an alkyd-based rust inhibitive primer for priming on iron and steel. It is recommended for iron and steel surfaces under non-immersion condition.

Product Features:

- Anti-Rust
- Fast dry
- Available in Reddish Brown, Grey Green and Light Grey Colour

Paint Type	Product Type	Finishing	Recommended Substrate	Pack Size
Solvent based	Interior & Exterior	Low Gloss	Iron and Steel	1 Litre, 5 Litres, 20 Litres

Composition

Pigment	: Anti rust and Extender
Binder	: Alkyd
Thinner	: White spirit

Technical Data

Drying Time (25-30°C)	: Touch Dry	: Approximately 15 minutes (Dependent on temperature and humidity)
	: Hard Dry	: 4 hours (Dependent on temperature and humidity)
Overcoating Time (25-30°C)	: Minimum 8 hours (Dependent on temperature and humidity)	
Typical Thickness	: 30 - 45 μm dry film per coat 55 - 85 μm wet film per coat	
No. of Coats	: 1 - 2 coats	
Theoretical Coverage	: 18.3 m^2/litre (for dry film thickness of 30 microns) 12.2 m^2/litre (for dry film thickness of 45 microns)	
Practical Coverage (40% Loss Factor, as a guideline)	: 11.0 m^2/litre (for dry film thickness of 30 microns) 7.3 m^2/litre (for dry film thickness of 45 microns)	
Volume Solid	: 55 ± 3% by volume	
Specific Gravity	: 1.36 - 1.46	
Shelf Life	: Up to 24 months in tight sealed container **(Subjected to reinspection after exceeding shelf life period)**	

Application Method

Thinner	: Nippon General Purpose Thinner	
Brush/ Roller	: If necessary, add about 5% thinner by volume.	
Compressed Air Spray	: If necessary, add about 10% to 15% thinner by volume.	
Airless Spray	: Delivery pressure	: 140 – 170 kg/cm^2
	: Tip size	: 0.015" – 0.017"
	: Spray angle	: 60° - 70°
	: Dilution	: Up to 5% thinner by volume

Recommended Coating System

Iron and Steel

Primer	: Nippon Zinc Phosphate Primer FD	: 1 Coat
Intermediate	: Nippon Protective Finish FD	: 1 Coat
Top Coat	: Nippon Protective Finish FD	: 1 Coat

Primer	: Nippon Zinc Phosphate Primer FD	: 1 Coat
Intermediate	: Nippon Micaceous Iron Oxide	: 1 Coat
Top Coat	: Nippon Protective Finish FD	: 1 Coat
Primer	: Nippon Zinc Phosphate Primer FD	: 1 Coat
Intermediate	: Nippon Micaceous Iron Oxide	: 1 Coat
Top Coat	: Nippon Micaceous Iron Oxide	: 1 Coat
Primer	: Nippon Zinc Phosphate Primer FD	: 1 Coat
Intermediate	: Nippon Aluminium Paint	: 1 Coat
Top Coat	: Nippon Aluminium Paint	: 1 Coat

Surface Preparation

The surface to be painted shall be power tool cleaned to minimum **SSPC-SP3 or St 3 ISO 8501- 1:2007,** free from mill scale. It must be dry and free from dirt, grease, oil and other contaminants before application of the paint.

Cleaning

Cleaning Solvent : Nippon General Purpose Thinner. Clean up equipment with thinner immediately after use.

Environmental Conditions During Application

- Do not apply when the relative humidity exceeds 85% or when the surface to be coated is less than 3°C above the dew point.
- Do not apply at temperature below 7°C. If not, drying and overcoating times will be considerably extended.
- During application of the paint, naked flame, welding operations and smoking should not be allowed and good ventilation is necessary.

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.
- During application of paint, naked flames, welding operation, and smoking should not be allowed.
- 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 and does not consider Loss Factor.

$$\left[\frac{Volume\ Solid\ \%\ x\ 10}{Dry\ Film\ Thickness\ (\mu)}\right] = m^2/lit/coat$$

This theoretical coverage rate has been calculated from the volume solids of the material and is related to the amount of coating applied onto a perfectly smooth surface without wastage. For a practical coverage rate, due allowance should be made for atmospheric conditions, surface roughness, geometry of the article being coated, the skill of applicator, method of application etc. when estimating quantities required for a particular job.

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Star Horse 700 Undercoat

Cat Alas Star Horse 700

Star Horse 700 Undercoat is oil-modified alkyd based. It has good hiding and build and serves as a good foundation for Nippon 9000 Gloss Finish and Nippon Supreme Gloss Finish.

USES

For use on primed metal, woodwork, and previously painted surfaces prior to painting Nippon 9000 Gloss Finish or Nippon Supreme Gloss Finish.

COMPOSITION

PIGMENTS	:	Titanium dioxide and mineral extenders.
BINDER	:	Soya bean oil modified long-oil alkyd.
SOLVENT	:	White spirit.

PROPERTIES

COLOUR	:	White
TEXTURE	:	Matt
RECOMMENDED DRY FILM THICKNESS PER COAT	:	30-35μ
DRYING TIME	:	Touch Dry - 20 minutes Hard Dry - 2 hours
RECOATING INVERVAL	:	4 hours
THEORETICAL COVERAGE	:	14-16m^2/litre

APPLICATION METHODS

BY BRUSH OR ROLLER
The paint is ready for use after thorough stirring. If necessary, thin down with 5% of Nippon General Purpose Thinner.

BY CONVENTIONAL AIR SPRAY
Dilute the paint with 15% - 20% of Nippon General Purpose Thinner.

BY AIRLESS SPRAY
The paint is ready for use after through stirring.

SURFACE PREPARATION

WOOD
Wood must be dry and free from dirt, grease and other contaminants. Smoothen surface with sandpaper and then clean off and dry.

METAL
Surface must be dry and free from dirt, grease and other contaminants. Ferrous substrates should be sanded or wire-brushed to remove millscales and rust. Clean off and dry.

PREVIOUSLY PAINTED SURFACES

Any loose and flaking paint film must be scraped off. Defective areas should be sanded and smoothened, and in case of ferrous substrates, rust should be throughly removed. The entire surface must finally be dry and clean of dirt, grease and other contaminants. The scraped areas should be spot-primed using a primer for metal and an undercoat for wood surfaces.

RECOMMENDED PAINT SYSTEMS

FOR WOOD

Sequence	Product Name	No. of coats
Primer	Nippon 9000 Aluminium Wood Primer	1
Undercoat	* STAR HORSE 700 UNDERCOAT	1
Finish	Nippon 9000 Gloss Finish/Nippon Supreme Gloss Finish	2

FOR STEEL AND IRON

Sequence	Product Name	No. of coats
Primer	Nippon Red Oxide Primer/Nippon Zinc Chromate Primer/Nippon Red Lead Primer	1 - 2
Undercoat	* STAR HORSE 700 UNDERCOAT	1
Finish	Nippon 9000 Gloss Finish/Nippon Supreme Gloss Finish	2

FOR ALUMINIUM AND GALVANIZED IRON

Sequence	Product Name	No. of coats
Etching primer	Nippon Etching Primer 120	1
Primer	Nippon Red Oxide Primer/Nippon Zinc Chromate Primer/Nippon Red Lead Primer	1 - 2
Undercoat	* STAR HORSE 700 UNDERCOAT	1
Finish	Nippon 9000 Gloss Finish/Nippon Supreme Gloss Finish	2

STANDARD PACKING : 5 litres, 20 litres.

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THE COATINGS EXPERT™

METHOD STATEMENT

PAINTING WORKS AT CONSTRUCTION SITE

1.0 SUBMITTALS

1.1 Product Data:

a) Complete list of products proposed for use submitted at least 30 days prior to commencement of painting work with indication of Nippon Paint brand name, quality and type of paint for each surface to be finished.

1.2 Certification:

a) Certification from approved local certification body and/ or other accredited international green building material products rating tool, for the environmental friendly and sustainable products used. Certification should spell out the material certification standards, rating and details, and technical product information.

1.3 Schedule:

a) Submit a complete schedule for approval prior to commencement pf painting work.

2.0 SAMPLES

2.1 Preliminary Samples:

a) Two (2) properly identified paint samples of each painting system and each colour, applied to smooth surface of A4 size or A5 size for review and approval.

i) Each successive coat of paint shall be exposed the same amount, be colour tinted slightly different to show each coat, and be identified by number of coating and paint type.

ii) Each sample shall indicate, on the back of sample, the painting system, the number and type of paint for each coat, the colour and sheen of the finish coat, and the location where the paint on the paint sample will be applied.

iii) After approval of preliminary sample, submit one (1) additional sample of each approved colour, marked and tagged with the location where each colour will be applied.

2.2 Site Sample Panels:

a) After approval of paint materials and samples specified above, site sample panels at the Project, of each painting system (all coats) in each colour on actual surface materials to be painted, at locations designated by the Architect.

i) Site sample panels shall follow according to colour scheme which approve by architect.

ii) Apply first coat for the full height of the panel; apply intermediate coats (tinted) and final coat so as to leave a strip 450mm in height at the top and bottom of panels without covering the previous coats.

iii) Finish painting will only begin prior to acceptance only begin after acceptance.

iv) Upon review and approval, repaint site sample panels as required to leave the walls in a completed condition.

v) In the event that the site sample panel(s) are not approved due to the unacceptability of the colour tone / shade, the Contractor shall repaint and continue to repaint the panel(s) until such time that the Architect is satisfied with the colour tone / shade. The Contractor shall bear all costs associated with the repainting of the site sample panel(s).

3.0 DELIVERY, STORAGE, AND HANDLING

3.1 All materials for painting shall be delivered to the Site in the original sealed containers supplied by the manufactures and shall be carefully stored to minimize exposure to high temperatures in accordance with manufacturer's recommendation. Storage for paint shall carry warning signs both inside and outside in all the official local languages reading "Strictly No Smoking" and "Flammable"

3.2 Maintain neat conditions in storage area.

3.3 Store and mix materials in defined site locations. Do not open sealed containers until materials and colours have been accepted.

3.4 Close containers and remove flammable material from the premises.

3.5 Flammable and volatile materials should be stored in well-ventilated areas. Contractor shall take all precautions required to prevent fire.

4.0 EXECUTION

4.1 Preparation of Surfaces for Paint

a) Properly prepare all surfaces to receive paint, which includes cleaning, sanding, and touching up of all prime coats applied under other Sections of the work.

b) Painting shall not be commenced before the Work of other trades has been substantially completed and the area concerned thoroughly cleaned out.

c) Surfaces to be painted shall be perfectly clean and dry.

d) Architect will be notified immediately if any surfaces to be painted or finished are not in satisfactory condition for painting or finishing or cannot be cleaned smooth and defects removed with sanding, in the work of painting.

4.2 Conditions of Substrate:

a) No painting or finishing shall be done when the air is dust-laden nor when weather and temperature conditions are unsuitable.

b) Temperature within the building and temperature of surfaces to be painted shall conform to Nippon Paint recommendation.

c) Provide appropriate ventilation during the painting and drying periods.

d) Exterior painting shall not be done in damp or rainy weather.

e) The Contractor shall make good, at no additional expense to the Paint Marketing Co. (M) Sdn Bhd, in any failure or damage to appearance due to the substrate not being completely ready for paint application and substrate being rough or unsuitable by previous tradesmen.

4.3 Wet and Damp Surfaces

a) Do not apply paint of other finish over wet or damp surfaces, do not apply succeeding coats until the preceding coat is thoroughly dry unless specifically required by the Nippon Paint for the proper application of the paint or finish.

b) Do not apply any form of paint over internally wet surfaces as attested t

4.4 Testing for Moisture Content:

a) Test concrete, masonry, plaster, and drywall surfaces for moisture content using a reliable electronic moisture meter (protimeter).

b) Do not apply any paint or sealer to any concrete wall surface where the moisture content below 16% as measured by an electronic moisture meter (Protimeter)

4.5 Sanding

a) Uniformly sandpaper primers and undercoats on wood, metal, plaster and drywall to provide a smooth, even surface for finish coats. Wipe dust off after sanding.

4.6 Removal of Existing Paintwork

a) Remove all paintwork from existing plaster using one of the following methods:

i) Approved chemical paint remover applied in accordance with the manufacturer's recommendations and washed thoroughly with pressurized water spray.

ii) Careful scraping using flat sharp tools in a manner, which does not cause damage to the plaster and washing thoroughly with pressurized water spray.

4.7 Preparation to Existing Plastered Wall

a) To remove unstable paint film either by high pressure water jet wash for external wall and manual scraping for internal.

b) To patch all hairline cracks or surface defects with Nippon Paint Multi Purpose Joint Compound or other approved weather resistant putty.

4.8 Painting Plastered Surfaces

a) Surfaces for painting shall be clean and dry. Any efflorescence shall be removed by first wiping dry coarse cloth and then with a damp cloth. The surfaces shall then be left for 48 hours to ascertain if further efflorescence occur and no paint shall be applied until efflorescence has ceased and when surfaces are thoroughly dry.

b) Fill all scratches, crack, holes depressions and voids and fill with non-striking grout, speckle, patching plaster or other selected patching material. Allow to dry, refill if necessary, sand smooth to provide a flush, smooth surface.

c) Plastered surfaces shall be allowed to cure for not less than 28 days and thoroughly dry before painting commence.

4.9 Woodwork

a) Sand to remove all roughness, loose edges, slivers, splinters and brush to remove dust. Wash off the grease dirt, Fill all cracks, splits ; nail holes, screw holes and surface defects with wood putty or speckling compound after the priming coat has been applied.

b) Coarse grain is also to be filled and the whole rubbed down to a smooth surface with wire wool.

4.10 Concrete Surface

a) Concrete surfaces are to be brushed down to remove dirt, efflorescence and encrusted mortar, etc.

b) Remove form oil or mould release oil from concrete surfaces using a suitable solvent and then neutralize; remove all foreign matter from concrete suraces to be painted including all grit, dirt, loose materials, mortar drippings and the like; remove all nibs, projects or protuberances from concrete surfaces to be painted.

5.0 PAINT APPLICATION

5.1 General:

Follow Nippon Paint printed instructions for mixing and application of paint materials.

5.2 Preparation:

Before beginning any Work of this Section, Contractor shall carefully examine and prepare all surfaces to be painted or finished as specified herein under, "Preparation of Surfaces for Paint".

5.3 Procedure:

a) Apply paint only when moisture content of surfaces is within manufacturer's recommended limits.

b) All materials shall be applied by skilled tradesmen. Paint shall be evenly and thoroughly applied, using clean brushes, rollers or spraying equipment

c) Each succeeding coat of paint shall differ slightly in colour from the preceding coat.

d) Complete each specified coat of paint on an entire floor or area.

e) Apply materials at rate not exceeding that recommended by paint manufacturer for surface being painted, less ten (10) percent for losses.

f) Comply with manufacturer's recommendations for drying time between coats.

g) Sand, dust, and clean with approved solvent between coats to remove defects visible from a distance of 1.5m.

h) Finish coats shall be smooth, free of brush marks, streaks, laps or pile-up of paint, skipped or missed areas.

i) A wet film thickness gauge shall be used after application of each coat and recorded so that total minimum dry film thickness where specified will not be less than that specified.

j) Make edges of paint adjoining other materials or colours clean and sharp without overlapping.

k) Primer coats may be omitted for surfaces specified to receive factory applied primer if primer is compatible with finish coats.

l) Back Prime exterior and interior finish carpentry and joinery with material specified for prime coats, without runs on face. Finish cut edges just prior to installation.

m) Where portion of finish on a plastered wall or partition is damaged or unacceptable, refinish entire surface to nearest internal or external corners.

n) Paint systems and/or materials offered for approval shall comply with the minimum dry film thickness requirements specified therein. Paints shall be factory mixed and blended ready for use, except for stirring.

EXECUTION OF NEW PAINTING WORKS

Masonry	Surface Preparation	Painting System	Dilution Factor	Method Of Application	Coating Interval
External Wall	i) Allow masonry surface to dry at least 21 days. ii) Ensure that the surface are free from loose dirt, dust, grease, oil, wax and other foreign matter. iii) Make good of any surface defect or filling up with suitable putty. iv) Alkalinity below pH 9. v) Moisture content below 16% (by protimeter)	1st coat - Vinilex 5100 Wall Sealer 2nd coat - Nippon Weatherbond/Advance/Solareflect 3rd coat - Nippon Weatherbond/Advance/Solareflect	10% with water 5-10% with water 5-10% with water	By roller By roller By roller	Minimum 3 hours Minimum 3 hours Minimum 3 hours
Internal Wall	i) Allow masonry surface to dry at least 21 days. ii) Ensure that the surface are free from loose dirt, dust, grease, oil, wax and other foreign matter. iii) Make good of any surface defect or filling up with suitable putty. iv) Alkalinity below pH 9. v) Moisture content below 16% (by protimeter)	1st coat - Vinilex 5200 Wall Sealer 2nd coat - Super Vinilex Eco 5000 Emulsion/ Spot-less/ Odour-less 3rd coat - Super Vinilex Eco 5000 Emulsion/ Spot-less/ Odour-less	10% with water 5-10% with water 5-10% with water	By roller/spray By roller/spray By roller/spray	Minimum 2 hours Minimum 2 hours Minimum 2 hours
Ceiling	i) Allow masonry surface to dry at least 21 days. ii) Ensure that the surface are free from loose dirt, dust, grease, oil, wax and other foreign matter iii) Make good of any surface defect or filling up with suitable putty. iv) Alkalinity below pH 9. v) Moisture content below 16% (by protimeter)	1st coat -Vinilex 5200 Wall Sealer 2nd coat - Super Vinilex 5000 Emulsion/matex 3rd coat - Super Vinilex 5000 Emulsion/matex	10% with water 5-10% with water 5-10% with water	By roller/spray By roller/spray By roller/spray	Minimum 2 hours Minimum 2 hours Minimum 2 hours

Metalwork	Surface Preparation	Painting System	Dilution Factor	Method Of Application	Coating Interval
Mild Steel	i) The surface must free from millscale, rust, grease, oil and other contaminants. ii) It must be dry at the time of application. iii) Light sanding where required.	1st coat - Nippon Zinc Phosphate Primer FD	5%-General Purpose Thinner	By brush / roller	Minimun 8 hours
		2nd coat - Nippon 9000 Undercoat	5%-General Purpose Thinner	By brush / roller	Minimum 8 hours
		3rd coat - Nippon 9000 Gloss Finish	5%-General Purpose Thinner	By brush / roller	Overnight
		4th coat - Nippon 9000 Gloss Finish	5%-General Purpose Thinner	By brush / roller	Overnight
Galvanized Surfaces	i) The surface must free from grease, oil and other contaminants. ii) It must be dry at the time of application. iii) Light sanding where required.	1st coat - Nippon GalvaPrimer	5%-General Purpose Thinner	By brush / roller	Minimun 4 hours
		2nd coat - Nippon 9000 Undercoat	5%-General Purpose Thinner	By brush / roller	Minimum 8 hours
		3rd coat - Nippon 9000 Gloss Finish	5%-General Purpose Thinner	By brush / roller	Overnight
		4th coat - Nippon 9000 Gloss Finish	5%-General Purpose Thinner	By brush / roller	Overnight
Woodwork	i) Wood must be dry and free from dirt, grease and other contaminants. Smoothen surface with sandpaper and then clean off and dry.	1st coat - Nippon 9000 Alumininum Wood Primer	Ready for use	By brush	Minimum 8 hours
		2nd coat - Nippon 9000 Undercoat	5%-General Purpose Thinner	By brush / roller	Minimum 8 hours
		3rd coat - Nippon 9000 Gloss Finish	5%-General Purpose Thinner	By brush / roller	Overnight
		4th coat - Nippon 9000 Gloss Finish	5%-General Purpose Thinner	By brush / roller	Overnight
Woodwork (Varnish Surfaces)	i) Wood must be dry and free from dirt, grease and other contaminants. Smoothen surface with sandpaper and then clean off and dry.	1st coat - Nippon Timber Finish	5%-General Purpose Thinner	By brush	4 hours
		2nd coat - Nippon Timber Finish	5%-General Purpose Thinner	By brush / roller	4 hours
		3rd coat - Nippon Timber Finish	5%-General Purpose Thinner	By brush / roller	4 hours

EXECUTION OF NEW PAINTING WORKS ON ROOF

Metalwork	Surface Preparation	Check List	Painting System	Dilution Factor	Method Of Application	Coating Interval
External Concrete Roof Top	i) Allow concrete surface to cure at least 28 days until moisture content is below 8% (by Protimeter) and pH value below 9 ii) Ensure that the surface are free from dirt, dust, oily residue and other foreign matter iii) Any surface cracks are to be rectified by the main contractor iv) The surface should be clean and dry prior to painting	Yes / No	1st coat - Nippon EA-4 Finish 2nd coat - Nippon SRC PU Recoatable Finish 3rd coat - Nippon SRC PU Recoatable Finish	5% dilution with SA-65 Thinner 5-10% dilution with Nippon PU Recoatable Thinner 5-10% dilution with Nippon PU Recoatable Thinner	By roller By roller By roller	Minimun 16 hours Minimum 8 hours Minimum 8 hours
		Nippon EA-4 Finish	- Mixing Ratio : Part A - Base (4.5 Litre) Part B - Hardener (0.5 Litre) - Thinner : SA-65 Thinner			
		Nippon SRC PU Recoatable Finish	- Mixing Ratio : Part A - Base (4 Litre) Part B - Hardener (1 Litre) - Thinner : Nippon PU Recoatable Thinner			

Masonry	Surface Preparation	Painting System	Dilution Factor	Method Of Apllication	Coating Interval
External Wall	i) To remove all loose paint film, dust, oil, grease and other foreign matter with high pressure waterjet (min 1500psi) for the external plastered walls	1st coat - Vinilex 5100 Wall Sealer	10% with water	By roller / brush	Minimum 3 hours
	ii) Treat any areas affected by fungus growth with Nippon Fungicidal Wash solution				
	iii) To repair hairline cracks with appropriate wall filler / putty. It must free from dirt, grease and other foreign matter.	2nd coat - Nippon Weatherbond/ Advance/ Solareflect	5-10% with water	By roller / brush	Minimum 3 hours
	iv) Alkalinity below pH 9.				
	v) Moisture content below 16% (by protimeter)	3rd coat - Nippon Weatherbond/ Advance/ Solareflect			
Internal Wall	i) To remove all loose, defective paint or powderly residues.	1st coat - Hi-Bond Wall Sealer	5% with thinner	By roller / brush	Minimum 2 hours
	ii) Treat any areas affected by mold and mildew with Nippon Fungicidal Wash solution	2nd coat - Super Vinilex Eco 5000 Emulsion/ Spot-less/ Odour-less			
	iii) To repair hairline cracks with appropriate wall filler / putty. It must free from dirt, grease and other foreign matter.	3rd coat - Super Vinilex Eco 5000 Emulsion/ Spot-less/ Odour-less	5-10% with water	By roller / brush	Minimum 2 hours
	iv) Alkalinity below pH 9.				
	v) Moisture content below 16% (by protimeter)				

Wood Work	i) Wood must free from dirt, grease and other contaminants. Smoothen surface with sandpaper and then clean off and dry.	1st coat - Nippon 9000 Undercoat	5%- General Purpose Thinner	By roller / brush	Minimum 8 hours
		2nd coat - Nippon 9000 Gloss Finish	5%- General Purpose Thinner	By roller / brush	Overnight
		3rd coat – Nippon 9000 Gloss Finish			
Woodwork (Varnish Surfaces)	i) Wood must be dry and free from dirt, grease and other contaminants. Smoothen surface with sandpaper and then clean off and dry.	1st coat - Nippon Timber Finish	5%- General Purpose Thinner	By brush / roller	4 hours
		2nd coat - Nippon Timber Finish	5%- General Purpose Thinner	By brush / roller	4 hours
		3rd coat - Nippon Timber Finish	5%- General Purpose Thinner	By brush / roller	4 hours
Metal Work	i) Metal must free from dirt, grease and other contaminants and to sand rust surface with sandpaper. Clean off and dry. ii) The scraped areas should be spot-primed using a primer for metal.	1st coat - Nippon 9000 Undercoat	5%- General Purpose Thinner	By roller / brush	Minimum 8 hours
		2nd coat - Nippon 9000 Gloss Finish	5%- General Purpose Thinner	By roller / brush	Overnight
		3rd coat – Nippon 9000 Gloss Finish			

6.0 WET SAMPLE

a) Wet sample will be collected at job site.

b) Wet sample will be tested by technical department.

c) Wet sample must adhere to the standard.

7.0 DRY FILM TEST

a) Any doubt on the paint material applied on job site shall follow by Dry Film Test.

b) All cost incur to conduct dry film test will be borne by owner.

8.0 QUALITY ASSURANCE

a) The Contractor's require to comply with QLassic Standard or Conquas Standard.

b) Indoor emulsion paint products shall be low volatile organic compound (VOC) paints certified under the Sirim Eco Label.

c) All paints used for priming coats, undercoats and finishing coats shall be of the same brand and from the same manufacturer. Where available, undercoats shall be of different shades to correspond with the shade of the finishing coat.

9.0 JOB CONDITIONS

9.1 Environmental requirements:

a) Comply with manufacturer's recommendations as to environmental conditions under which materials may be applied.

b) Do not apply any material in spaces where dust is present or being generated.

9.2 Safety:

a) Provide temporary fire protection equipment in materials storage area.
b) Prohibit smoking in storage area

10.0 CLEANING & REPAIRNG

a) Remove from premises, upon completion of the work, all protection, surplus materials, empty containers, rags, dirt, and other debris resulting from the work under this Section.

b) Repair damage to other work caused by work of this Section. Retouch all painted or finished work wherever necessary or directed.

c) Remove daubs or spatters of paint, varnish, lacquer, etc., from all glass, floors, walls, partitions, equipment, etc., and leave surfaces clean.

11.0 PERSONAL PROTECTION EQUIPMENT

a) Legal foreign workers with CIDB green card with 24 hour insurance policy.

b) Workman compensation for workers only during working hours.

c) Safety helmet usage at site

No Lesen : **PN000509**
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LESEN PENSIJILAN BARANGAN
Product Certification Licence

SIRIM

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NIPPON PAINT (M) SDN. BHD.
LOT 172, JALAN DATIN HALIMAH
LARKIN INDUSTRIAL ESTATE
80350 JOHOR BAHRU
JOHOR, MALAYSIA

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GLOSS ENAMEL PAINT

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as complying with

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Nur Fadhilah binti Muhammad
Ketua Pegawai Eksekutif
Chief Executive Officer
SIRIM QAS International Sdn. Bhd.

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Selangor Darul Ehsan
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Faks : 60-3-55446466
http://www.sirim.my
http://www.malaysian-certified.my

Tarikh Mula Pensijilan	**: 13 April 1996**	**Tarikh Dikeluarkan**	**: 22 April 2021**
Certified Since		*Issue Date*	
Sah Sehingga	**: 26 May 2022**	**No Siri**	: 063645
Valid Until		*Serial No*	

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Eco-Label Licence

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JALAN SU 4
40300 SHAH ALAM
SELANGOR, MALAYSIA

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PAINTS

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sebagai mematuhi keperluan
as complying with

SIRIM ECO 019 : 2012

Nur Fadhilah binti Muhammad
Ketua Pegawai Eksekutif
Chief Executive Officer
SIRIM QAS International Sdn. Bhd.

SIRIM QAS International Sdn. Bhd.
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Tarikh Mula Pensijilan	**: 02 October 2009**	**Tarikh Dikeluarkan**	**: 04 October 2021**
Certified Since		*Issue Date*	
Sah Sehingga	**: 02 October 2023**	**No Siri**	: 067895
Valid Until		*Serial No*	

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SCHEDULE

NIPPON PAINT (M) SDN. BHD.

SIRIM
ECO-LABEL

Trade Mark	:NIPPON WEATHERBOND SOLAREFLECT, NIPPON WEATHERBOND ADVANCE, NIPPON SOLAROOF, NIPPON WEATHERBOND
Model	:LATEX EMULSION PAINT FOR INTERIOR AND EXTERIOR USE
Trade Mark	:NIPPON ODOUR - LESS ALL - IN - 1, NIPPON ODOUR - LESS AIRCARE, NIPPON SATIN GLO, NIPPON SPOT - LESS, NIPPON VINILEX FRESH ANTI - BACTERIAL, SUPER VINILEX ECO 5000, NIPPON HYDRO - GLOSS, NIPPON HYDRO - MATT, SUPERMATEX - ECO RANGE, NIPPON VIRUSGUARD
Model	:LATEX EMULSION PAINT FOR INTERIOR USE
Trade Mark	:NIPPON ODOUR - LESS WALL SEALER, NIPPON VINILEX 5100 WALL SEALER, NIPPON VINILEX 5500 WALL SEALER, NIPPON VINILEX 5300 BASECOAT SEALER
Model	:WATERBASED SEALER

Eco-Labelling Claim : LOW VOC

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Sah Sehingga	**: 02 October 2023**	**No Siri**	: 067895
Valid Until		*Serial No*	

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40000 SHAH ALAM
SELANGOR, MALAYSIA

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LATEX EMULSION PAINT FOR EXTERIOR AND INTERIOR USE

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as complying with
MS 134 : 2007

Mohd Azanuddin bin Salleh
Ketua Pegawai Eksekutif
Chief Executive Officer
SIRIM QAS International Sdn. Bhd.

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Tarikh Mula Pensijilan *Certified Since*	**: 31 December 1992**	**Tarikh Dikeluarkan** *Issue Date*	**: 29 December 2020**
Sah Sehingga *Valid Until*	**: 31 December 2021**	**No Siri** *Serial No*	: 060496

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SCHEDULE

NIPPON PAINT (M) SDN. BHD.

SIRIM

Trade Mark : SUPER VINILEX 5000,NIPPON WEATHERBOND

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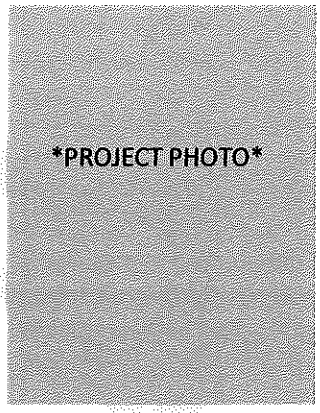
Tarikh Mula Pensijilan *Certified Since*	**: 31 December 1992**	**Tarikh Dikeluarkan** *Issue Date*	**: 29 December 2020**
Sah Sehingga *Valid Until*	**: 31 December 2021**	**No Siri** *Serial No*	: 060496

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THE COATINGS EXPERT™

ID Pro No: _____

PRODUCT WARRANTY



Project Name	
Appointer	**(Developer / Main Contractor)**
Agreement	
NPSB's Appointed Paint Applicator	
Effective Date	**(Date of procurement of CPC)**
Expiry Date	
Paint Surface	
Colour Scheme Ref No.	
(If any) Total Project Contract Value	

SAMPLE

Coating

Surface Preparation

New Unpainted Surfaces

i. Allow substrate to dry out completely. The normal curing period for cement plaster is around 21 days.

ii. Moisture content of substrate should remain below 16% (by using Protimeter) and alkalinity below pH9 before commencement of painting. In situations where either moisture or alkalinity remains high, it must be allowed to dry out sufficiently over time before painting.

iii. Any efflorescence must be removed by washing off chalk deposits. No painting is to be done until efflorescence has completely ceased.

iv. Repair surface cracks with appropriate filler or cement render to prevent water and moisture seepage into the substrate.

v. For every porous cementitious plaster where the paint is quickly absorbed, we recommend an additional coat of wall sealer. In all circumstances, the total thickness of paint film should completely and adequately cover the substrate. Otherwise, this can critically affect the overall paint performance.

Coating Sequence	Type of Paint	No. of Coats
Primer	Nippon Vinilex 5100 Wall Sealer	1
Intermediate	-	-
Finishing	Nippon Weatherbond	2
Colour Code	Quarry Pebble 720	-
Paint Value	RM 10,000.00	-

1.0 RECTICALS

1.1 Nippon Paint (Sabah) Sdn. Bhd. (40233-U) is an associated company of Nippon Paint (Malaysia) Sdn. Bhd., a company incorporated in Malaysia having its registered address at (Lot 9, Commercial Zone 2, Jalan 2, KKIP Timur, Kota Kinabalu Industrial Park (KKIP), 88460 Kota Kinabalu, Sabah).

1.2 The Applicator has engaged NPSB by virtue of the Agreement to supply the Coating System for the Project whereupon NPSB has agreed to supply the Coating System towards that purpose. In furtherance of the above, NPSB is now providing a product warranty to the Applicator for the supply of the Coating System subject to the terms herein contained.

2.0 COVERAGE OF PRODUCT WARRANTY ("WARRANTY")

2.1 NPSB warrants that the Coating System for the Project shall be free from premature paint failure due to the following defects:

(a)	Peeling	:	A condition where the paint film peels away or detaches itself from the substrate.
(b)	Cracking	:	A condition where there are visible cracks within the paint film that is not caused from substrate or structural defects.
(c)	Fungus	:	A condition where there is growth of fungus within the paint film. This does not cover fungus growth caused from the water seepage, high moisture or constant dampness within the walls.

(Collectively referred to as "Premature Paint Failure")

SAMPLE

2.0 COVERAGE OF PRODUCT WARRANTY ("WARRANTY") (con't...)

2.2 The warranty shall commence on the date the Certification of Practical Completion is issued.

2.3 In the event of any Premature Paint Failure, NPSB shall replace the paint Coating System provided always that such Premature Paint Failure is ascertained to be caused by default on the part of NPSB in the supply of the Coating System. For avoidance of any doubt, the Warranty Period shall not be extended after any delivery of the new Coating Systems made under a Warranty claim is completed for the Project.

2.4 The Warranty shall be void and shall not apply under the following circumstances ("Exclusion of the Product Warranty"):

a) Damage of the coated surface caused by vandalism or by heavy impact, fire, natural calamities, 'Act of God' or any gradual degradation of the Coating System from natural weathering through effluxion of time including but not limited to even and gradual fading of colour.

b) Deterioration of paint including but not limited to staining, efflorescence, fungus growth caused from constant dampness around and within the walls from air conditioning, high moisture retention caused from water ponding, seepage or defects of similar nature or inadequate or improper surface preparation.

c) Surface deposition of fungus, dirt or any contaminant that can be removed through periodic cleaning. Fungus and algae growth that can be washed off is classified as a foreign layer deposited on the paint film.

d) Defects arising from work (alteration / extension) carried out onto the so affected areas of the building without the prior written agreement of NPSB.

e) Staining or discoloration caused from atmospheric dirt, undetected water or moisture from within the substrate, or from window screens, rain gutters, spout pipes, water down-pipes, etc.

2.0 COVERAGE OF PRODUCT WARRANTY ("WARRANTY") (con't...)

f) Failure or defects of any component underlying the substrate, structural defects, or from faulty of construction or design.

g) Trace difference in colour or texture on new materials being supplied for repair work against previous material.

h) Claims for incidental or consequential damages resulting from a breach of this warranty are specifically excluded.

i) Due to lack of maintenance e.g., periodical jet washing every nine (9) months.

j) Damage caused by any other third party including but not limited to any contractors, agents or representative appointed by the Applicator.

k) Any repairs carried out on the Premature Paint Failure without approval by NPSB.

l) Failure by the Applicator to adhere to NPSB's recommendation with regards to the maintenance of the Coating System.

m) Any Premature Paint Failure caused by the application of the Coating System by the Applicator's representatives, agents or contractors.

n) Usage of inferior materials or sub-standard and / or defective workmanship in the execution of work.

o) Defects caused from insufficient paint film thickness that does not adequately cover the substrate.

SAMPLE

2.0 COVERAGE OF PRODUCT WARRANTY ("WARRANTY") (con't...)

2.5 Upon detection of any Premature Paint Failure, the Applicator shall, at its own cost determine the cause of such Premature Paint Failure whereupon the report procured based on the investigation shall be handed to NPSB for verification ("Preliminary Investigation Report"). Upon verification and approval by NPSB that the Premature Paint Failure was due to a default on the part of NPSB, NPSB shall proceed to supply a new Coating System for the repair of the Premature Paint Failure in accordance of the terms contained herein. For avoidance of any doubt, any other ancillary cost in relation to the Warranty claim including but not limited to any cost of clearance of the Premature Paint Failure site and labour cost in the application of the Coating System shall be borne by the Applicator.

2.6 This Warranty shall only be valid PROVIDED ALWAYS that all outstanding sums of monies due and owing to NPSB has been fully paid and settled by the Applicator. In the event that the Applicator fails to pay any amount due and owning to NPSB, this Warranty shall automatically be terminated and the NPSB shall not be liable for any claims made against NPSB under this Warranty. For avoidance of any doubt, the Parties hereby agree and understand that the paint touch ups on vibrant colours may vary slightly from the original colour.

3.0 PROCEDURES FOR CLAIMS

3.1 Any Warranty claims should be made in writing and delivered by post or by hand to the Nippon Paint (Sabah) Sdn. Bhd., Lot 9, Commercial Zone 2, Jalan 2, KKIP Timur, Kota Kinabalu Industrial Park (KKIP), 88460 Kota Kinabalu, Sabah together with the Preliminary Investigation Report.

3.2 A technical team ("Technical Team") will be despatched to evaluate the nature of the claim. Should their findings conclude the Premature Paint Failure as within the scope of this Warranty, then NPSB shall supply the necessary Coating System to make good of such Premature Paint Failure.

SAMPLE

3.0 PROCEDURES FOR CLAIMS (con't...)

3.3 Should the Technical Team conclude that the Premature Paint Failure was caused by circumstances stated in the Exclusion of Product Warranty or other factors alien to the scope of Warranty, NPSB will not be held responsible for the claim and therefore, the claim shall be deemed as invalid.

3.4 Should the Applicator disagree with the conclusion of the technical evaluation pertaining to the defects area, then the claim shall be referred to Pertubuhan Juruukur Malaysia / Institution of Surveyors Malaysia as an independent third-party evaluator ("Independent Third-Party Evaluator). The cost of such referral shall be borne equally by the Applicator and NPSB. The decision made by the Independent Third-Party Evaluator shall be binding upon all parties.

3.5 Any or all claims on Premature Paint Failure must be received and acknowledged by NPSB before the Expiry Date or before termination of this Warranty whichever applicable.

3.6 For avoidance of any doubt, NPSB's maximum extent of liability shall be subject to a diminution of percentage (%) with a sliding scale in value for every twelve (12) month period from the Effective Date as follows: -

1st year from Effective Date – 100% of the defect area
2nd year from Effective Date –78% of the defect area
3rd year from Effective Date – 56% of the defect area
4th year from Effective Date – 34% of the defect area
5th year from Effective Date – 10% of the defect area

3.7 NPSB will make every reasonable effort to provide the required Coating System for the Premature Paint Failure as soon as possible. NPSB shall however not be liable for any delay caused by reasons beyond the control of NPSB.

SAMPLE

4.0 MISCELLANEOUS CLAUSE

4.1 The Warranty given hereunder shall be specific towards the Applicator and shall not be assigned or transferred in any manner to any other party.

4.2 This Warranty shall be governed by and construed in accordance with the laws of Malaysia to such extent the laws are applicable.

4.3 A mediation process will take place in the event of any dispute, controversy or claim arises in relation to this Warranty including any breach, termination, or invalidity and it is conducted to negotiate and to gain mutual agreement regarding any disputed matter. The mediation process must be in accordance to the Mediation Act 2012.

4.4 The Applicator agrees to indemnify NPSB without limitation against any and all claims made by any party including but not limited to NPSB's agents or representatives for any injury, loss or damage caused by negligence and default by the Applicator during any repair or Warranty claims in the Project area.

4.5 Any failure by the Applicator to comply with any terms and conditions to this Warranty shall result in bar to any claim being made under this Warranty.

4.6 NPSB reserves the right to change the system or materials for another suitable material in the event that any if existing material or system is found to be obsolete or unavailable provided always that the new system or materials shall be of similar quality.

4.7 NPSB reserves the right to do regular site inspection in the period of the painting works and make recommendations to the Applicator to ensure proper maintenance of the Coating System ("NPSB's Recommendations").

4.8 This Warranty is subject to the limitations and conditions described above and shall not be deemed to include any warranty of fitness whether expressed or implied, to the extent acceptable under any written laws are hereby disclaimed and NPB shall have no liability except as specifically expressed herein.

4.0 MISCELLANEOUS CLAUSE (con't...)

4.9 In the event of any conflicts with regards to the warranties contained in the Agreement and the Warranties herein contained, the terms of this Warranty shall prevail.

4.10 Any and all appendices to this Warranty shall form part of this Warranty.

4.11 NPSB's reserves the right to amend or change the terms of this Warranty at any time provided NPSB provides the Applicator with written notice as to such amendments or changes.

4.12 The liability under this Warranty shall be in substation for all other liability in connection with the Coating System whether in contract or otherwise.

SAMPLE

Signed for NPSB	:
Signature	:
Name (typed)	:
Designation	:
Date	:
Witnessed By	:
Signature	:
Name (typed)	:
Designation	:
Date	:

Signed for the Applicator	:
Signature	:
Name (typed)	:
Designation	:
Date	:
Witnessed By	:
Signature	:
Name (typed)	:
Designation	:
Date	:

SAMPLE

GENERAL ADVICE – Getting the Optimal Performance

A. Paint Film Thickness

We must emphasise on the adequacy of paint film thickness to ensure optimal performance of the paintwork. Over dilution of the paint during painting and substrate conditions can affect the paint film thickness. Cementitious plaster and concrete works tend to shrink on drying, leaving fine capillaries which readily absorb water upon wetting. The size and density of the capillaries is directly related to the porosity of the substrate. If it is too porous, moisture-related problems can arise if the paint film is unable to seal and foreign matter like atmospheric dirt will be easily trapped including algae and fungus spores. In all circumstances, the paint film should completely and adequately cover the substrate for optimal performance.

B. Periodic Cleaning

We would recommend periodic cleaning of the exterior surface to maintain the aesthetic and durability of the Coating System. Atmospheric dirt in the air can accumulate on flat areas like top of parapet, edges and ledges and with the presence of rainwater, unsightly streak marks may be visible in light colours. Over passage of time, the accumulation of dirt and organic matter together with high moisture can promote the growth of algae although the paint can still be intact.

The frequency of cleaning should be preferably be at least 9 (nine) months interval depending on environmental conditions.

Our cleaning recommendation are as follows:

1. Wash away loose dirt, dust and other contaminants with mild detergent (3% to 5% dilution) or clean water.
2. Apply Nippon Fungicidal wash and allow to stand overnight.
3. Clean away the fungicidal wash with clean water.

C. Water Seepage

The most common cause of water seepage into walls are blocked and damages gutters, leaking downpipes, back splashes on ledges, poor water run-off due to insufficient or poorly designed drainage sometimes causing 'ponding' after a heavy downpour, etc. As a result, water can penetrate the plastered walls bringing along moisture related problems onto the paintwork. It is the drying-out process of the moisture that provides the vehicle for the migration of alkali and soluble salts form the cement to the paint surface (causing defects such as discoloration, efflorescence, peeling, blistering).

We strongly advocate the advantages of putting capping onto top of parapet walls and proper waterproofing on wall joint areas to prevent water seepage. Similarly, overhanging roofs and copings over vertical walls can avoid unsightly dirt streaks.