

General Description

Nippon Paint SolaReflect is a high performance water-based elastomeric silicone paint that reflects a large amount of solar energy from the sun. It can reflect more solar energy and reduce the surface temperature by up to 5 °C. This special property can lower the heat build-up and subsequently decreases the energy needed for air-conditioning. It is a green product and is certified with “Hong Kong Green Label Scheme”.

Features

- Low VOC
- Elastic
- High solar energy reflection
- Excellent washability
- Excellent dirt resistance
- Excellent weathering resistance
- Alkali resistance
- Anti-carbonation
- Fungus and algae resistance

Recommended For

- Exterior masonry surfaces
 - Hotels
 - Schools
 - Residential buildings
 - Commercial buildings
 - Industrial buildings

Certification(s)



HKGLS Code No. GL-008-010
Certification No. HK-02183

General Information

Colour:	Standard colours as per colour card	Drying time: (at 30°C)	Touch dry: 30 mins
Type	Water-based silicone coating formulated with solar reflective pigment	Overcoat Time: (at 30°C)	≥2 hrs
Finishes:	Low sheen	Full Curing (at 25 °C)	7 days
Application Method:	Brush / Roller / Airless spray	Specific Gravity: (at 25 °C)	1.36 ± 2% (based on white colour)
Theoretical Coverage:	10~12 m ² /L/coat	Solid Content: (by volume)	60 ± 2%
Dilution:	No	Packing:	20L
Dry Film Thickness:	40~50µm	Shelf Life:	18 months in sealed original packaging stored at room temperature and shaded place.

Technical Data

<u>Test</u>	<u>Test Method</u>	<u>Result</u>
VOC Content (g/L)	USEPA Method 24	<50
Heavy Metal - Lead (ppm)	USEPA Method 3051A and 7196A	ND
Heavy Metal - Cadmium (ppm)	USEPA Method 3051A and 7196A	ND
Heavy Metal - Mercury (ppm)	USEPA Method 3051A and 7196A	ND
Heavy Metal - Chromium VI (ppm)	USEPA Method 3051A and 7196A	ND
Halogenated Solvents Content (%)	USEPA Method 311	ND
Formaldehyde (%)	ASTM D5910-05 (2012)	ND
Aromatic Compound (%)	USEPA Method 311	ND
Metal Material for ROHS - Heavy Metal - Lead (ppm)	USEPA Method 3051A, 7196A, 3540C, 8081A	ND
Metal Material for ROHS - Heavy Metal - Cadmium (ppm)	USEPA Method 3051A, 7196A, 3540C, 8081A	ND
Metal Material for ROHS - Heavy Metal - Mercury (ppm)	USEPA Method 3051A, 7196A, 3540C, 8081A	ND
Metal Material for ROHS - Heavy Metal - Chromium VI (ppm)	USEPA Method 3051A, 7196A, 3540C, 8081A	ND
Metal Material for ROHS - PBBs Content (ppm)	USEPA Method 3051A, 7196A, 3540C, 8081A	ND
Metal Material for ROHS - PBDEs Content (ppm)	USEPA Method 3051A, 7196A, 3540C, 8081A	ND
Solar reflectance (%)	ASTM C159-09	80.7
Emittance	ASTM C1371-04a	0.89
Solar Reflectance Index (SRI)	ASTM E1980-01	100.12 for Low wind 100.29 for Medium-wind 100.45 for High-wind

*ND = Not Detected

Nippon Paint SolaReflect

Recommended Painting System

Sealer/Primer: One coat of Ultra Sealer III

Top Coat: Two coats of SolaReflect

Surface Preparation

All surface must be clean, dry and free from oil, grease, dirt, contaminants and loose materials.

Dirt/Powder: High-pressure wash.

Paint: Remove unstable or old film by high-pressure wash, or scraper whichever is appropriate.

Plaster: Remove by chisel or power grinder. Replaster to unstable surface with an approved mortar mixture.

Moisture: High moisture causes paint defect. The moisture content of substrate should be less than 6% or 19 determined by Protimeter. All water seepage must be checked and rectified.

pH Value: pH value should be less than 10.

Fungus: Remove by high-pressure wash & treat with Nippon Paint Anti-Fungus Solution

Oil/Grease: Clean off with mild detergent and a little solvent. Wash thoroughly to remove all trace.

✧ **Ensure fresh air ingress while applying and before dry done**

✧ **High humidity and cool temperature will result in longer drying time**

Limitations

Avoid painting when the temperature is below 10°C or above 35 °C or the humidity is over 85%. Do not paint when raining and rain is expected during painting or drying process.

Clean Up

Wash painting tools with water immediately after use.

Safety Information

Keep out of reach of children. If medical advice is needed, get the product container or label at hand for easy reference.

Be aware of sanding dust / spray mist. Protective gloves, eye or face protection are highly recommended. Keep away from sparks, heat, open flames and any other ignition sources.

Eating, drinking and smoking should be prohibited in areas where the material is handled, stored and processed.

In case of eye contact, rinse immediately with plenty of water. For splashed skin, clean thoroughly with soap and water. Seek medical attention if indication persists.

If you experience difficulties on breathing, leave applied area and obtain fresh air. If difficulties continue, immediately get medical attention.

Product must always be stored in a ventilated, cool and dry place.

Tightly close product container after each use.

Flash Point and Ignition Point

Flash Point: N/A

Ignition Point: N/A

Note: The information given applies to the product and its performance under specific test condition. Due to the varied circumstances beyond our control under which the product may be applied, for specific applications, please contact Nippon Paint Project Sales Department. We reserve the right to modify our product specification without prior notice.

For further enquiries, please call:

Nippon Paint (H.K.) Co., LTD

Tel: (852) 2699 9333

Fax: (852) 2602 8844

Website: <http://www.nipponpaint.com.hk>

General Description

Nippon Paint Ultra Sealer III is a high performance water-based alkali-resistant acrylic sealer which is formulated to prevent deterioration of top coat by strong concentration of cement chemicals and provides a better surface condition for top coat to adhere on. With elastic property, water resistance, fungus and algae resistance, it gives a good performance and protection for interior and exterior surfaces.

Recommended For

- Interiors and exteriors
 - Cement plaster
 - Concrete
 - Quality skim coat

Features

- Elastic
- Excellent adhesion
- Quick drying
- Excellent alkali resistance
- Water resistance
- Fungus and algae resistance
- Efflorescence resistance

General Information

Colour:	Clear / White	Drying time: (at 30°C)	Touch dry: 10 mins
Type:	Modified acrylic copolymer	Overcoat Time: (at 25°C)	2 hrs
Finishes:	Matt	Full Curing (at 25 °C)	7 days
Application Method:	Brush / Roller /Airless spray	Specific Gravity: (at 25 °C)	1.04 ~1.11
Theoretical Coverage:	12m ² /L/coat	Solid Content: (by volume)	36.5
Dilution:	Brush/Roller - max 30% water (Internal) - max 20% water (External) Spray - max 20% water (Internal) - max 10% water (External)	Packing:	18L
Dry Film Thickness:	30µm	Shelf Life:	36 months in sealed original packaging stored at room temperature and shaded place.

Ultra Sealer III

Technical Data

<u>Test</u>	<u>Test Method</u>	<u>Result</u>
VOC Content (g/L)	USEPA Method 24	<100
Formaldehyde (mg/kg)	GB 18582-2008	21
Heavy Metal - Lead (mg/kg)	GB 18582-2008	ND
Heavy Metal - Cadmium (mg/kg)	GB 18582-2008	ND
Heavy Metal - Chromium (mg/kg)	GB 18582-2008	ND
Heavy Metal - Mercury (mg/kg)	GB 18582-2008	ND
Condition in Container	JIS K5400 : 1990 4.1	There was no lumps, no separation and no coagulation of the ingredients
Hardness (Pencil Scratch Value)	JIS K5400 : 1990 8.4.2	H
Film Appearance	JIS K5400 : 1990 7.1	Appearance of film is normal
Water Resistance	JIS K5400 : 1990 8.19	Unchanged when immersed 96 hours in tap water
Alkaliproof	JIS K5400 : 1990 8.21	Unchanged when immersed 48 hours in saturated solution of calcium hydroxide
Water Permeability (ml)	JIS A 6909-1995	0.23
Adhesion Strength (Under Normal Condition, N/cm ²)	JIS A6910 : 1988 5.8	200
Adhesion Strength (Immersion in Water, N/cm ²)	JIS A6910 : 1988 5.8	211.66
Permeability (ml)	JIS A 6910 : 1998 5.10	0

*ND = Not Detected

Ultra Sealer III

Surface Preparation

All surface must be clean, dry and free from oil, grease, dirt, contaminants and loose materials.

- Dirt/Powder: High-pressure wash (External). Clean with damp cloth (Internal). Mild detergent may be used.
- Paint: Remove unstable or old film by high-pressure wash, or scraper whichever is appropriate.
- Plaster: Remove by chisel or power grinder. Replaster to unstable surface with an approved mortar mixture.
- Moisture: High moisture causes paint defect. The moisture content of substrate should be less than 6% or 19 determined by Protimeter. All water seepage must be checked and rectified.
- pH Value: pH value should be less than 10.
- Fungus: Remove by high-pressure wash & treat with Nippon Paint Anti-Fungus Solution
- Oil/Grease: Clean off with mild detergent and a little solvent. Wash thoroughly to remove all trace.

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