

General Description

Nippon Paint Aquatec Fine Urethane is a green product which is a high quality water-based polyurethane paint with low VOC. Its functions include excellent weathering resistance, fungus & algae resistance, water resistance, humidity resistance, chemical resistance and fire-retardant property, providing excellent performances and all-round protections for exteriors. This product is certified with “HK -GPASS Platinum”.

Features

- Low VOC
- Excellent hiding power
- Excellent weathering resistance
- Excellent fungus & algae resistance
- Humidity resistance
- Water resistance
- Chemical resistance
- Fire-retardant property

Recommended For

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

Certification(s)



General Information

Colour:	White and Nippon Paint 1881 colour creations	Drying time: (at 25 °C)	Touch dry: 10 mins Dust free: 30 mins
Type:	Modification of water-based polyurethane paints	Overcoat Time: (at 25 °C)	≥ 2 hrs
Finishes:	Matt / Semi-gloss	Full Curing (at 25 °C)	7 days
Application Method:	Roller / Brush / Spray	Specific Gravity: (at 25 °C)	1.25
Theoretical Coverage:	0.15~0.16 kg/m ² /coat Brush – 0.15 kg/m ² /coat Roller – 0.15 kg/m ² /coat Spray – 0.16 kg/m ² /coat	Solid Content: (by volume)	52 ± 4%
Dilution:	5~10% clean water	Packing:	20 kg
Dry Film Thickness:	30µm	Shelf Life:	36 months in sealed original packaging stored at room temperature and shaded place.

Nippon Paint Aquatec Fine Urethane

Technical Data

<u>Test</u>	<u>Test Method</u>	<u>Result</u>
VOC Content (g/L)	USEPA Method 24	<50
Formaldehyde (%)	Distillation Method	0.001
Phthalates content (%) (DBP, BBP, DEHP, DINP, DNOP, DIDP)	With reference to CPSC-CH1001-09.3.	ND
Lead, Cadmium, Mercury, Barium, Hexavalent Chromium (%)	Inductively Coupled Argon Plasma – Atomic Emission Spectrometry and UV-Visible Spectroscopy	ND
Ozone Depleting Substances (%)	Gas Chromatography Mass Spectrometry	ND
Condition in Container	JIS K5660 : 1995 4.3 & JIS K5400 :1990 4.1	The paint was uniform without lumps when mixed by stirring
Low Temperature Stability @ 5 °C	JIS K5660 : 1995 4.4 & JIS K 5660 5.1	There was no deterioration
Application Properties (Recoatibility)	JIS K5660 :1995 4.5	There were no application difficulties when applied twice by brush
Appearance of Film	JIS K5660 : 1995 4.7	There was no change
Hiding Ability (Opacity)	JIS K5660 : 1995 4.8	0.99
Water Resistance	JIS K5660 : 1995 4.10 & JIS K5400 :1990 8.19	After immersion in water for 96 hours, the gloss retention was 96% and there was no change in the paint film
Alkali Resistance	JIS K5660 : 1995 & JIS K5400 1990 8.21	More than 65% gloss retention after 7 days immersion, no abnormalities on film surface
Acid Resistance	BS EN ISO 2812-1 : 2007	No discernible change
Adhesion	BS 3900 : E6 : 2007	Classification :0

*ND = Not Detected

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Salt Water Resistance	JIS K5400 8.23	There was no change in the paint film after immersion in 3% sodium chloride solution for 168 hours
Wet Scrub Resistance (1000 times)	JIS K5660 : 1995 4.12 & JIS K5400 : 1990 8.11	Passed
Humidity and Cool-heat Cycling Resistance	JIS K5660 : 1995 4.13 & JIS K5400 : 1990 9.4	The gloss retention was >99% and there was no change in the paint film
Humidity resistance (3000 hours)	BS 3900 : F9 : 2001	No discernible change
Fungus resistance	BS3900 : G6 : 1989	No fungal growths (The rating is 0)
Mildrew Test	JIS Z2911	No growth (The rating is 0)
Algal Resistance	FIN7.M370.6	Comply
Accelerated weathering resistance (480 hours)	ASTM G53-88	Gloss retention – 66% Degree of chalking-> 8 points Negligible change in colour
Weathering resistance	JIS 5660	Degree of chalking - > 6 points No cracking, swelling, holes, blistering Negligible change in colour and gloss
Permeability	JIS K5400 8.16	0.4
Ignitability	BS 476 Part 5 : 1979	Non-ignitable
Fire propagation	BS 476 Part 6 : 1989 + A1 : 2009	4.64
Surface Spread of Film	BS 476 Part 7 : 1997 + AC :2014	Class 1

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Recommended Painting System

Sealer/Primer: One coat of Ultra Sealer III
Top Coat: Two coats of Aquatec Fine Urethane

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 5°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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