

### 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 “CIC Green Product Certification”.

### 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)



**CIC GREEN**  
PRODUCT CERTIFICATION

Licence Number: CIGPC-L-17012(P&C)

### General Information

Colour:	White and Nippon Paint 1988 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 <sup>2</sup> /coat Brush – 0.15 kg/m <sup>2</sup> /coat Roller – 0.15 kg/m <sup>2</sup> /coat Spray – 0.16 kg/m <sup>2</sup> /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	<25
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 : 2008 7.7	No deterioration / no change in quality
Application Properties	JIS K5660 : 2008 7.5	No application difficulties when applied twice
Appearance of Film	JIS K5660 : 2008 7.6	Film has normal appearance
Hiding Ability (Opacity)	JIS K5660 : 2008 7.9	1
Water Resistance	JIS K5660 :2008 7.11	100% gloss retention after 96 hours immersion; No abnormalities on the film surface
Alkali Resistance	JIS K5660 : 1995 & JIS K5400 1990 8.21	91% 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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<u>Test</u>	<u>Test Method</u>	<u>Result</u>
Salt Water Resistance (3000 hours)	JIS K5400 : 1990 8.23	Thereis no change in the paint film after immersion in 3% sodium chloride solution
Wet Scrub Resistance (1000 times)	JIS K5660 : 2008 7.13	Passed
Humidity and Cool-heat Cycling Resistance	JIS K5660 : 2008 7.14	>99% gloss retention; No abnormalities on the film surface
Humidity Resistance (3000 hours)	BS 3900 : F9 : 2001	No discernible change
Fungus Resistance	BS3900 : G6 : 1989	No fungal growths (The rating is 0)
Fungus and Mold Resistance	JIS Z2911-2010	No growth (The rating is 0)
Algal Resistance	FIN7.M370.6	Comply
Accelerated Weathering Resistance (480 hours)	JIS K5660 : 2008 7.15	Gloss retention – 93% Degree of chalking- 8 points Negligible change in colour
Weathering Resistance (More than 1 year exposure)	JIS K5660 : 2008 7.16	Degree of chalking - 8 points No cracking, swelling, holes, blistering; No change in colour and gloss
Permeability	JIS K5400 8.16	0.4
Dirt Resistance	ASTM D3719-87	Total dirt: 97.78% Imbedded dirt: 94.96%
Ignitability	BS 476 Part 5 : 1979	Non-ignitable
Fire propagation	BS 476 Part 6 : 1989 + A1 : 2009	4.64
Surface Spread of Flame	BS 476 Part 7 : 1997 + AC :2014	Class 1
Bend Test	BS 3900 : E1 : 1995	No cracking and detachment

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## 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:

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