



# Weatherbond

INDISPENSABLE COST SAVING EXTERIOR PAINT

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Chemical  
Resistance



Water and  
Humidity  
Resistance



Fungus and  
Algae Resistance



Dirt Resistance



Weathering  
Resistance



**CIC GREEN**  
PRODUCT CERTIFICATION  
CICGPC-L21136(P&C)

## Highlight

Nippon Paint weatherbond is a high performance water-based acrylic paint that gives a tough finish. With properties of excellent water resistance, alkali resistance, weathering resistance, dirt resistance, fungus & algae resistance and anti-carbonation property, providing idea performances and protections for exteriors.

Certified with CIC Green Product Certification (Platinum)



## Performance Data

Test	Test Method	Result
VOC Content (g/L)	USEPA Method 24	<50
Formaldehyde (%)	ASTM D5910-05 (2012)	ND
Plasticisers Content (%) (DBP, BBP, DEHP, DINP, DNOP, DIDP)	CPSC-CH-C1001-09.3	ND
Heavy Metal (%) (Lead, Cadmium, Hexavalent Chromium, Mercury, Barium)	ISO 3856-1,4,5,7,3 : 1984	Lead: ND Cadmium: ND Hexavalent Chromium: ND Mercury: ND Barium: .0.002
Ozone Depleting substances (%)	Solvent extraction followed by analysis using Headspace Gas Chromatography Mass Spectrometry	ND
Hiding Power (Contrast Ratio %)	BS EN ISO 2814 : 2006	95
Fineness of grind (µm)	BS EN ISO 1524 : 2013	30
Wet Scrub Resistance for 1500 Cycles	SS5 : F5 : 2003	Satisfactory
Accelerated Weathering Test (500 hrs)	ASTM G154-12a	No signs of checking, blistering or cracking. >99% of gloss retention Colour change: 5 (Grey Scale)
Algal Resistance (8 Weeks)	FIN7	Comply
Resistance of Paint to Fungus Growth	BS 3900 : G6 :1989	No fungus growth The rating is 0
Alkaline Resistance	JIS K5660 :2008 7.12	No abnormalities on the film surface after 7 days immersion in calcium hydroxide saturated solution
Condition in Container	JIS K5400 : 1990 4.1	When agitated, absent of lumps and evenly mixed.
Admixture	JIS K5400 : 1990 4.1	Evenly mixed consistency
Film appearance	JIS K5400 : 1990 7.1	The flatness of painted surface was good, and no graining, wrinkles, unevenness, blisters, holes or peelings was observed.
Flexibility	BS 3900 : E1 : 1995	The painted surface withstand the flexure steer caused by a mandrel with 10mm diameter.
Cross-Hatch Cutting Test	BS 3900 : E6 :1992 (AMD 8353)	The edges of the cuts were completely smooth; none of the squares of the lattice was detached (25 out of 25 squares were good.)
Impact Resistance (W=300g, H=50cm)	JIS K5400 : 1990 8.3	No cracks or peelings was observed on the film surface.

\*N.D. = Not Detected

Test	Test Method	Result
Quantifying Dirt Collection	ASTM D3719-97	Total dirt: > 99% Imbedded dirt : >99%
Acid Resistance (0.1% HCl Solution for 24 Hours)	BS EN ISO 2812-1 : 2007	No discernible change
Adhesion	BS 3900 : E6 : 2007	Classification - 0
Humidity Resistance for 3000 hrs	BS 3900 : F9 : 2001	No discernible change
MLA with Medium Texture (Full Set of Test)	PCCS-PP (Part 2 Cl.5 Table 3)	Comply
MLA with Fine Texture (Full Set of Test)	PCCS-PP (Part 2 Cl.5 Table 3)	Comply
MLA without Texture (Full Set of Test)	PCCS-PP (Part 2 Cl.5 Table 3)	Comply

## Technical Data

Type	Modified Acrylic Resin
Colour	Nippon Paint 1988 Colour Creations
Finish	Low Gloss
Application Method	Brush / Roller / Airless Spray
Theoretical Coverage	Theoretical: 10.0m <sup>2</sup> / Litre Practical: Depends on substrate condition, application method etc
Dilution	Ready for use, if necessary, dilution should not be more than 5% of water (For both external and internal)
Drying Time	Touch dry - 30 minutes at 30°C Hard Dry - 1 hour at 30°C Overcoat Time - 2 hours at 25°C The actual data may vary slightly depending on application conditions, methods and surface conditions
Recommended Painting System	1 coat : Nippon Paint Ultra Sealer III 1 coat : Nippon Paint Tilelac Texture Base Coat (Optional) 2 coats : Nippon Paint Weatherbond
Solid Content	>50%
Specific Gravity	>1.0
Packing	5 L & 18 L
Storage	Microbial Contaminants cause paint to spoil. Keep excess paint clean, reseal lid and store in cool and dry place
Shelf Life	36 months in sealed original packaging stored at room temperature and shaded place
Surface preparation	Ensure surface is clean, dry and stable. Remove loose surface matter and contaminants by appropriate means. If necessary, anti-fungus solution is recommended to wash the infected areas. Do not paint when moisture content is above 6 % or 19 determined by protimeter and pH value is above 10. For spray application, use a cover to keep splashing paint away from other surfaces
Precaution	Avoid direct contact on sensitive skin. Use appropriate protective equipment

## Job References



AIA Tower



PARKnShop Frozen Warehouse