

General Description

Nippon Paint HDC PUD Finish is an innovative single pack water-based polyurethane dispersion coating with self-linking technology (SLT). SLT enhances coating performance (aesthetic and mechanical properties). It is recommended for ferrous metal, non-ferrous metal, plastic, concrete, GRC, GRP etc.

Features

- Low odour
- Environmentally friendly
- Self-linking technology
- Self-dispersion power

Recommended For

- Hard wear areas
 - Stairwell
 - Lift
 - Corridors
 - Concrete walls
 - Handrail
 - Highway road barrier / fences
 - Flyover foot bridge

General Information

Colour:	White and Nippon Paint 1881 colour creations	Drying time: (at 25°C)	Surface dry: 45 mins Hard dry: 8 hrs
Type:	One component water-based polyurethane dispersion paint	Overcoat Time: (at 25°C)	12-24 hrs
Finishes:	Semi-gloss	Full Curing (at 25 °C)	7 days
Application Method:	Brush / Roller / Spray	Specific Gravity: (at 20°C)	1.20~1.30
Theoretical Coverage:	0.15 kg/m ² /coat	Solid Content: (by volume)	41.17%
Dilution:	0~10% clean water	Packing:	20kg
Dry Film Thickness:	35µm	Shelf Life:	36 months in sealed original packaging stored at room temperature and shaded place.

Nippon Paint HDC PUD Finish

Technical Data

<u>Test</u>	<u>Test Method</u>	<u>Result</u>
VOC Content (g/L)	USEPA Method 24	<100

Recommended Painting System

Sealer/Primer: One coat of HDC 8048 Primer or Aquatec 1900
Zinc Phosphate Primer

Top Coat: Two coats of HDC PUD Finish

Surface Preparation

All surface must be clean, dry and free from oil, grease, dirt, contaminants, loose materials and rust. High moisture causes paint defect. The moisture content of substrate should be less than 6% or 19 determined by Protimeter. pH <10 is required for masonry surface and timber.

Metal: For optimum performance, abrasive blasting in accordance to Sa 2_{1/2} ISO 8501-1 :1988 is desirable. The surface to be coated must be clean and dry. Dry brushing should be sufficient to remove dirt. Where abrasive blasting is not possible, mechanical cleaning to St 3 ISO 8501-1 : 1988 standard is acceptable . For galvanized surfaces, thorough solvent degreasing to SSPC-SP1 is necessary and zinc salts can be removed by fresh water wash and scrubbing.

Masonry Surface: Prepare surface by an appropriate means to remove all foreign and loose surface matter. The surface must be clean, dry, free from grease and oil before applying compatible primer

Timber: Prepare by sanding to establish a smooth and clean surface, then applying a suitable filler coat. This filler coat must be allowed to dry properly before sanding is performed to level out any irregularities of the applied surface. Before painting, the surface must be clean, free from dust any foreign matter.

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

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

Application Details

For spray application, the delivery pressure and tip size should be 4 kg/cm² and ø1.3~1.8 mm at 60° angle respectively.

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

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General Description

Nippon Paint HDC 8048 Primer is a two-pack epoxy polyamide coating, specifically designed for use on steel surfaces that cannot be abrasive blast cleaned. It provides a high build impervious barrier coating that gives excellent adhesion and surface wetting properties on manually prepared rusty steelwork. Its unique combination of anti-corrosion pigments and rust penetrants provides excellent corrosion resistance in virtually any environment. It can be used as a high build primer under non-immersion services.

Features

- Excellent adhesion
- Outstanding tolerance to manually prepared surface
- Excellent corrosion resistance
- Provides a tough durable film with good weathering properties and excellent abrasion resistance
- Withstand continuous dry heat up to 100 °C

Recommended For

- Steel structure
- Heavy-duty metal surface

General Information

Colour:	Silver	Drying time: (at 25°C)	Touch dry: 3~4 hrs
Type:	Two-pack epoxy polyamide coating	Overcoat Time: (at 25°C)	16 hrs
Finishes:	Semi-gloss	Full Curing: (at 20°C)	7 days
Application Method:	Brush / Roller / Compressed air spray / Airless spray	Specific Gravity: (at 25°C)	1.29 (mixed)
Theoretical Coverage:	9.0 m ² /L/coat (100 µm)	Solid Content: (by volume)	90 % (mixed)
Dilution:	Brush / Roller / Airless spray – max. 5% SA-65 thinner or equivalent thinner, Compressed air spray - max.10~ 15% SA-65 thinner or equivalent thinner	Packing:	5L (Base: 2.5L / Hardener : 2.5L)
Mixing Ratio: (by volume)	Base : Hardener = 1 : 1	Shelf Life:	24 months in sealed original packaging stored at room temperature and shaded place..
Dry Film Thickness:	100 µm	Pot Life: (at 25°C)	3~4 hrs (Used up the mixed paint within the pot life time)

Nippon Paint HDC 8048 Primer

Technical Data

Test	Test Method	Result
VOC Content (g/L)	USEPA Method 24	<200
Benzene (%)	GB 18581-2009	ND
Toluene (%)	GB 18581-2009	ND
Ethylbenzene (%)	GB 18581-2009	3.22
Xylene (%)	GB 18581-2009	4.68

Test	Test Method	Result
Sum of Toluene, Ethylbenzene, Xylene (%)	GB 18581-2009	7.90
Heavy Metal - Lead (mg/kg)	GB 18581-2009	ND
Heavy Metal - Cadmium (mg/kg)	GB 18581-2009	ND
Heavy Metal - Chromium (mg/kg)	GB 18581-2009	ND
Heavy Metal - Mercury (mg/kg)	GB 18581-2009	ND

*ND = Not Detected

Surface Preparation

All surface must be clean, dry and free from oil, grease, dirt, contaminants, loose materials and rust. High moisture causes paint defect. The moisture content of substrate should be less than 6% or 19 determined by Protimeter.

Metal: For optimum performance, abrasive blasting in accordance to Sa 2_{1/2} ISO 8501-1 :1988 is desirable. The surface to be coated must be clean and dry. Dry brushing should be sufficient to remove dirt. Where abrasive blasting is not possible, mechanical cleaning to St 3 ISO 8501-1 : 1988 standard is acceptable. For galvanized surfaces, thorough solvent degreasing to SSPC-SP1 is necessary and zinc salts can be removed by fresh water wash and scrubbing.

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

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

Application Details

Preferably use airless spray if a thicker coat is required in one application. Brush, roller, compressed air spray generally leads to lower film thickness, so more applications may be required to obtain the recommended thickness per coat. For brush and roller, it is recommended for small areas and touch-up only. Good quality brushes and mohair / short nap should be used with full strokes. Avoid rebrushing. Thin up to 10% ~15% by volume of SA-65 Thinner or equivalent thinner for proper flow-out. Additional coats may be required to achieve minimum specified film thickness. For airless spray, excessive high tip spraying pressure should be avoided. The minimum pressure at the pump conducive with good atomisation should be used. The delivery pressure, tip size and spray angle for airless spray are 140~170 kg/cm², 0.015”~0.017” and 60-70° respectively.

Paint Preparation

Stir the content of the base component, continue stirring the hardener and gradually add the total contents of the hardener component, continue stirring until a homogeneous mix is obtained.

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 Nippon SA-65 thinner 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.

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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 - Base: 27°C, Ignition Point - Base: 450°C

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