



NIPPON PUD HYGIENIC COATING

Single Component Water Thinned PU Dispersion Coating

Product Description :

NIPPON PUD HYGIENIC COATING is a single component high performance water thinned polyurethane dispersion coating specifically designed for protection of the internal masonry surfaces such as cement wall, plastering wall, concrete wall, fibre and gypsum boards. It is recommended for internal uses and non-immersion services.

NIPPON PUD HYGIENIC COATING provides a tough smooth surface. Being water-based and environmental friendly, the coating during application and curing provides a low odour environment and therefore is ideal for food preparation areas, factories, canteen, electronics industries, pharmaceutical and hospital walls, offices and institutions where strong solvent odour is undesirable.

Physical Characteristics of Paint

Colour	:	Manufactured in white. Selected colours available subject to minimum batch manufacture.
Texture	:	Mid Sheen
Specific gravity	:	1.10- 1.30 (dependent on colour)
Solid Content	:	45% by volume (ASTM D2697 1973)
Flash Point	:	Not Applicable
Recommended no. of coats	:	1 to 2 coats.
Recommended Film Thickness Per Coat	:	50 ~ 80 microns for dry film 112 ~ 178 microns for wet film
Theoretical coverage	:	9.0 m ² /litre (for dry film thickness of 50 microns) 5.63 m ² /litre (for dry film thickness of 80 microns) $\text{Theoretical Coverage} = \frac{\text{Volume Solids (\%)} \times 10}{\text{Dry Film Thickness (\mu)}} \text{ (m}^2\text{/litre)}$
Practical Coverage (20% Loss Factor)	:	7.20 m ² /litre (for dry film thickness of 50 microns) 4.50 m ² /litre (for dry film thickness of 80 microns)

Note : This theoretical coverage rate has been calculated from the volume solids of the material and is related to the amount of coating applied onto a perfectly smooth surface without wastage. For a practical coverage rate, due allowance should be made for atmospheric conditions, surface roughness, geometry or the article being coated, the skill of applicator etc. when estimating quantities required for a particular job.

GENERAL PROPERTIES :

Adhesion	:	Excellent on correctly prepared surfaces.
Chemical Resistance	:	Recommended for use against a wide range of chemical spillage and splashes i.e. resistant to household bleach, fats, oils, solvents, acids and alkalis etc
Anti Bacteria Test (JIS Z2801)	:	Passed Japan Wrap Test: Ecoli, S.Aureus & MRSA

Shelf Life (at 25⁰C ~ 30⁰C) : 2 years

Thinner / Thinning : WATER. Normally 10 % thinning is required for airless spray.

Note: All equipment should be cleaned IMMEDIATELY with thinner after use. For thinning, substitute thinners other than those approved or supplied by Nippon Paint may adversely affect the product performance and void product warranty whether express or implied.

Surface Preparation :

Remove all loose, defective paint or powdery residues. Repair cracks, uneven surfaces with Nippon ACS Putty or suitable fillers. Smoothen the putty / filler areas with sandpaper. Surfaces to be painted must be cleaned thoroughly and dry, it must be free from dirt, grease and other foreign matters. Allow all surfaces to dry completely prior to painting. Avoid painting when the moisture content and alkalinity of the walls is still high. (Recommended painting specification requires the moisture content of the walls to be below 16% measured by protimeter and alkalinity of the wall to be below pH9.)

For previously painted surfaces, Remove all unstable paint film, loose chalk, dust and foreign matter. Make good any surface defects, clean off and dry. Spot prime with NIPPON HI-BOND WALL SEALER.

Drying Time (at 25°C ~ 30°C) :
: Dry to Touch - Dependent on temperature and humidity.
: Hard Dry - 3- 4 hours
: Dry to Overcoat - Minimum 4 hours

Curing Time (at 25°C ~ 30°C) : 7 days

Note: Drying time will become remarkably delay under low temperature. Overcoating the previous coat should be done within 6 ~ 7 days but preferably as soon as possible after it has been allowed 16 hours drying or else, it is desirable to roughen it by dry sanding with sandpaper before it is overcoated. This is to ensure proper intercoat adhesion. Exposure of the paint film to water, chemical and abrasion should be avoided as far as possible before full cure of the coating. When chalking occurs, chalks should be removed by water washing. Allow the surface to dry thoroughly prior to overcoating.

Application Methods : Brush, roller, compressed air spray and airless spray. Preferably use airless spray if a thicker coat is required in one application. Brush, roller, compressed air spray generally lead to lower film thickness, so more applications may be required to obtain the recommended thickness per coat.

1) Spray : When airless spray is being used, excessive high tip spraying pressure should be avoided. The minimum pressure at the pump conducive with good atomisation should be used.

2) Brush/Roller : Recommended for small areas and touch-up only. Good quality brushes and mohair/ short nap rollers should be used with full strokes. Avoid rebrushing. Thin up to 10% by volume of **WATER** for proper flow-out. Additional coats may be required to achieve minimum specified film thickness.

Airless Spray Guiding Data

Tip Size : 11 – 15 Thou
Tip Pressure : 2,000 p.s.i.
Spray Angle : 60-70°

Standard Packing : 5 litres
20 litres

Environmental Conditions During Application:

1. Do not apply when the relative humidity exceeds 85% or when the surface to be coated is less than 3°C above the dew point.
2. The surface temperature for application is 7°C but drying and overcoating times will be considerably extended.
3. During application of the paint, naked flames, welding operations and smoking should not be allowed and adequate ventilation should be provided.

Safety, Health and Environmental Information

1. Provide adequate ventilation, especial using in confined spaces
2. Keep container tightly closed and keep out of reach from children.
3. Do not breathe vapour/spray. Applying paint to large surface areas under closed environment should use air supplied breathing equipment. For small areas or short periods, a suitable cartridge mask should be worn.

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| Inhalation | : | Remove to fresh air, loosen collar and keep patient rested. |
| Ingestion | : | In case of accidental ingestion. DO NOT INDUCE VOMITTING. Seek immediate medical attention. |
| 4. | | Avoid contact with skin and eyes. Wear suitable protective coating such as overalls, goggles, dust masks and gloves. Use a barrier cream. |
| Eyes | : | In the event of accidental splashes, flush eyes with water immediately and obtain medical advice. |
| Skin | : | Wash skin thoroughly with soap and water or approved industrial cleaner. DO NOT USE solvent or thinners. |
| 5. | | Care must be taken when transporting paint. Keep container in a secure upright position. |
| 6. | | Do not empty into drains or watercourses. Dispose of any paint waste in accordance with the appropriate Environmental Quality Regulations. |

Note : A Chemical Safety Data Sheet (CSDS) is available upon request.

NOTE: The above information is given to the best of our knowledge based on laboratory tests and practical experience. However, since we cannot anticipate or control the many conditions under which our products may be used, we can only guarantee the accuracy of our information or the suitability of our products in any given condition.

We reserve the right to alter the given data without notice.