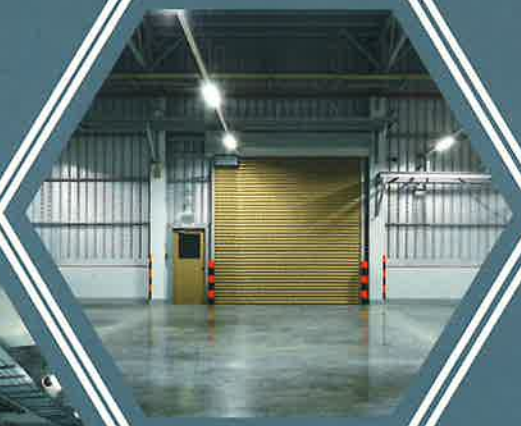
NIPPON PAINT

PROTECTIVE & FLOOR COATINGS



- Hi-Pon 40-04 Epoxy
- Hi-Pon 50-01 Polyurethane
- FLOOR-PRO 302 Aqua Epoxy Finish
- Easy Floor

POPULAR COLOURS

Also available in Nippon Paint RAL Pro-Series colours

White O	9102	Pearl 1 O	1301	Lilac Swish 1 O	2043				
Yellow Y ✪	0668	Calm Green 2 O	6070	Fresh Blue 2 O	2041	Ivory 1 O	4052	Venus 1 O	1406
Golden Yellow	BS 356	Dark Green 4 ✪ O	1458	Blue 3 O	0139	Ash Grey 1 O	9093	Misty Grey 2 O	1457
Orange 4 ✪	0823	Grass Green 4 ✪ O	BS 218	Bright Blue 4 ✪ O	0632	Executive Grey 2 O	0104	Medium Gray 2 O	2034
Signal Red R ✪	BS 537	Lime Green 3 O	1459	Aluminium Only available for Hi-Pon 50-01	1463	Black	9103	Admiralty Gray 3 O	2018

1 Base 1 2 Base 2 3 Base 3 4 Base 4 Y Base Y R Base R ✪ Premium Colour O Easy Floor

All colours shown in this card are as close to actual Nippon Paint colours as modern printing techniques permit.
Also available in clear for Hi-Pon 40-04 Epoxy and Hi-Pon 50-01 Polyurethane.

Hi-Pon 40-04 Epoxy

For Interior Metal

Hi-Pon 40-04 is a two-component amine-adduct cured epoxy finish for use on steel and cement surfaces where chemical, oil or abrasion resistant coating is required. It is recommended for non-immersive surfaces. If it is to be applied over steel, it has to be used in combination with the appropriate primers as recommended below. If it is to be applied over concrete, the surface should be acid-treated prior to application. It is widely used in infrastructure and other heavy-duty industries.

Coating System

Type of Surface	Type of Paint	No. Of Coat(s)	Dry Film Thickness (microns)	Theoretical Coverage	Application Method	Overcoating Time
Interior Metal Substrates	1st Coat: Hi-Pon 20-03	1	80µm	9.0m²/L	Brush, Roller, Air Spray, Airless Spray	3 hours
	2nd Coat: Hi-Pon 40-04 Epoxy	1	50µm	10.2m²/L		3-4 hours
	3rd Coat: Hi-Pon 40-04 Epoxy	1	50µm	10.2m²/L		3-4 hours

Hi-Pon 50-01 Polyurethane

For Exterior Metal

Hi-Pon 50-01 is a two-component high-build glossy aliphatic acrylic polyurethane coating that incorporates an extensive range of performance characteristics. This top coat finish provides high durability, gloss level and colour retention. It is widely used in infrastructure industries.

Coating System

Type of Surface	Type of Paint	No. Of Coat(s)	Dry Film Thickness (microns)	Theoretical Coverage	Application Method	Overcoating Time
Exterior Metal Substrates	1st Coat: Hi-Pon 20-03	1	80µm	9.0m²/L	Brush, Roller, Air Spray, Airless Spray	3 hours
	2nd Coat: Hi-Pon 50-01 Polyurethane	1	80µm	12.0m²/L		3-4 hours
	3rd Coat: Hi-Pon 50-01 Polyurethane	1	80µm	12.0m²/L		3-4 hours

SURFACE PREPARATION FOR STEEL
表面处理

MILD STEEL 软钢

STEP 步骤 1

To carry out blasting to SA 2.5 (ISO 8501-01:2007)

按照SA 2.5(ISO 8501-01:2007) 的标准，进行喷砂处理。

STEP 步骤 2

Ensure the surfaces are well-prepared before coating. Protect areas that are not required to be painted over. E.g. covering with dropsheet or masking tape.

- The performance of the paint system will depend upon the degree of surface preparation.

在上漆前，确保表面已经处理妥当。在无需上漆的部位做好保 护措施，如以塑料布/防护胶带遮盖。

- 粉刷系统的性能取决于表面处理的程度。

STEP 步骤 3

Mix the paint in the specified mixing ratio. Dilute only with recommended thinner when necessary with the specified proportion.

以特定的混合比例搅拌油漆。如有必要，可按规定的比例使用稀释剂对油漆进行稀释。

STEP 步骤 4

Do not paint when relative humidity exceeds 85% or substrate temperature is 3°C below dew point.

当相对湿度超过85%或基材温度低于露点3°C时，请勿上漆。

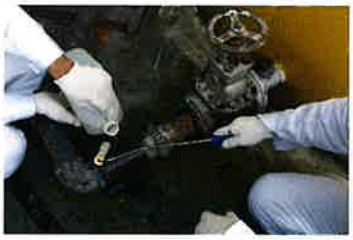
STEP 步骤 5

Paint the edges and difficult to reach areas first. Carry out paint application according to painting specification. Allow the paint to dry and observe the interval over-coating time.

Repeat Steps 3, 4 and 5 for second and subsequent coats. If the interval over-coating time has been exceeded, abrade the surface with sand-paper before subsequent coatings.

先将表面边缘和难以触及的部分上漆。按照涂漆规范上漆待油漆干燥后，观察再次上漆的时间间隔。

重复步骤3，4和5，以便进行第二层和 随后的上漆。如果超过该油 漆复涂 时间间隔，先用砂纸 打磨表面。再进行后续的上漆步骤。



GALVANISED STEEL 镀锌钢

STEP 步骤 1

Degrease with solvent to remove oil, grease and unstable foreign matter in accordance with SSPC-SP1.

根据SSPC-SP1，用溶剂去除油、油脂和不稳定的异物。

STEP 步骤 2

Roughen surface by mechanical means or sandpaper.

用机械或砂纸打磨表面。

STEP 步骤 3

The surface should be clean, dry and dust free prior to painting.

涂漆前，表面应清洁，干燥且无灰尘。

STEP 步骤 4

Mix the paint in the specified mixing ratio. Dilute only with recommended thinner when necessary with the specified proportion.

以特定的混合比例以特定的混合比例搅拌油漆油漆。如有必要，可按规定的比例使用稀释剂对油漆进行稀释。

STEP 步骤 5

Do not paint when relative humidity exceeds 85% or substrate temperature is 3°C below dew point.

当相对湿度超过85%或基材温度低于露点3°C时，请勿上漆。

STEP 步骤 6

Paint the edges and difficult to reach areas first. Carry out paint application according to painting specification. Allow the paint to dry and observe the interval over-coating time.

先将表面边缘和难以触及的部分上漆。按照涂漆规范上漆。待油漆干燥后，观察再次上漆的时间间隔。

Repeat Steps 4, 5 and 6 for second and subsequent coats. If the interval over-coating time has been exceeded, abrade the surface with sand paper before subsequent coatings.

重复步骤4，5和6以便进行第二层和 随后的上漆。如果油漆复涂时 间超过该间隔 的时间，先用砂纸打磨表面，再进行后续的上漆步骤。

DAMAGED, CORRODED & TOUCH-UP/REPAIR 损坏，腐蚀与补漆/修复

STEP 步骤 1

Carry out mechanical surface preparation to damaged/burnt area to min St 3 SSPC-SP3 through wire brush, sanding.

通过钢丝刷和吹砂的方式，对损坏/烧坏的部位进行机械表面处理，至少达到St 3 SSPC-SP3的标准。

STEP 步骤 2

Ensure surface is clean, dry and free from contaminants.

确保表面清洁和干燥，并且不存在任何污染物。

STEP 步骤 3

Touch up with 1 coat of Hi-Pon 20-03 @ 80μm per coat, followed by 2 coats of Hi-Pon 40-04 Epoxy or Hi-Pon 50-01 Polyurethane @ 50μm per coat.

先涂一层 Hi-Pon 20-03 漆(每层80μm)，再涂两层 Hi-Pon 40-04 环氧树脂漆或 Hi-Pon 50-01 聚氨酯漆(每层50μm)。

FLOOR-PRO 302 Aqua Epoxy Finish

For Interior Floor

FLOOR-PRO 302 Aqua Epoxy Finish is a two-component high-performance water-based modified amine epoxy. It is designed for protection of the internal masonry surfaces such as cement or concrete floors. It is recommended for internal use and in non-immersion services.

Coating System

Type of Surface	Type of Paint	No. Of Coat(s)	Dry Film Thickness (microns)	Theoretical Coverage	Application Method	Overcoating Time
Concrete Floors	1st Coat: FLOOR-PRO 104 Aqua Epoxy Primer	1	60µm	0.15 - 0.19 L/m²	Squeegee with Back Roll, Broadcast Graded Aggregates (Optional)	16 - 24 hours
	2nd Coat: FLOOR-PRO 302 Aqua Epoxy Finish	1	50µm	0.13 - 0.20 L/m²		Min 16 hours
	Optional: Anti-Slip Finish Using graded aggregates Mesh Size: 30 - 60, 60 - 100	-	-	3 - 6 kg/m²		-
	3rd Coat: FLOOR-PRO 302 Aqua Epoxy Finish	1	50µm	0.13 - 0.20 L/m²		Min 16 hours

Easy Floor

For Interior Floor

Easy Floor is a premium fast-drying and self-priming water-based floor coating for interior flooring, pavement and concrete walkways. Its exceptionally short 1-hour recoating time and low odour enable a swift return to service, and its durable matt finish delivers good wear resistance.

Coating System

Type of Surface	Type of Paint	No. Of Coat(s)	Dry Film Thickness (microns)	Theoretical Coverage	Application Method	Overcoating Time
Concrete Floors	1st Coat: Easy Floor	1	50-60µm	8.0m²/L	Roller, Brush	1 hour
	2nd Coat: Easy Floor	1	50-60µm	8.0m²/L		1 hour
	3rd Coat: Easy Floor	1	50-60µm	8.0m²/L		1 hour

STEPS OF APPLICATION

STEP 1 Ensure surface is clean, dry and stable. All substrates must be prepared using the recommended surface treatment.

STEP 2 Dilute first coat with water by up to 10% dilution for better penetration and workability. No dilution is necessary for subsequent coats unless temperature exceeds 35°C, in which case 5 - 10% dilution is recommended to improve workability.

STEP 3 Pour the material onto the substrate in portions. Spread and back-roll with a roller. Leave it to dry for a minimum of 1 hour at 30°C.

STEP 4 Repeat Step 3 for second and subsequent coats.

NOTE:
Surface dry – approximately 30 minutes at 30°C
Foot traffic – 1 day
Full cure – 7 days

SURFACE PREPARATION FOR CONCRETE
混凝土表面处理

STEP 步骤 1

Concrete structures should be sufficiently sound and free from all defective or poorly adhering material with proper waterproofing membrane in place. Concrete substrate compressive strength should be of minimum 25 N/mm² and adhesive pull off strength of 1.5 N/mm². The moisture content of concrete shall be < 4% or dried up to 85% RH as per BS8204. It shall be free from rising damp and must be waterproofed against negative ground water pressure before coating works start.

混凝土结构应足够牢固，没有任何有缺陷或附着力差 的材料，并配有适当的防水膜。混凝土基材的抗压强 度应至少为25 N/mm²，粘合剂剥离强度应至少为 1.5 N/mm²。混凝土的水分含量应低于4%或根据 BS8204，保持干燥相对湿度不超过85%。在涂层工程 开始之前，混凝土需没有上升的水气，并且必须做好 防水工作以抵抗地下水的负压。

STEP 步骤 2

Prepare the concrete substrate surface by captive shot blasting, scarifying or mechanical grinding. Repair damaged area and patch up cracks and holes using a suitable repair material compatible with the coating system.

通过强制抛丸，划痕或机械研磨来准备混凝土基材表 面。修复损坏的区域并使用修补剂修补裂缝和孔洞。

STEP 步骤 3

Ensure the surfaces are well-prepared before coating. Protect areas that are not required to be coated. E.g. covering with dropsheet or masking tape.

在涂装前，确保混凝土表面已经处理妥当。在无需涂漆的部位做好保护措施，如以塑料布/防护胶带遮盖。

* The performance of the coating system will depend upon the degree of surface preparation and the thickness of the coating system.

* 涂装工程的质量好坏取决于混凝土表面处理的程度。

STEP 步骤 4

Mix the material in the specified mixing ratio using mechanical mixer until homogenous. Avoid inclusion of air during the mixing process.

以指定的混合比例混合涂料，直至均匀。避免在混合过程中混入空气。

STEP 步骤 5

Do not apply the coating when relative humidity exceeds 85%.

当相对湿度超过85%时，请勿上漆。

STEP 步骤 6

Pour the mixed paint and spread with a squeegee, followed by back roll with a roller. Observe the pot life and overcoating time.

倒入混合的涂料并用刮刀涂开，然后用滚轮回滚。遵守适用期和复涂时间。

Repeat Steps 4 to 6 for second and subsequent coats.

重复步骤4到6，以便进行第二遍和随后的上漆。

07/2023 Asuka Colour Technologies Pte Ltd 1123/8455

Nippon Paint (Singapore) Co. Pte Ltd
1 First Lok Yang Road, Jurong, Singapore 629728 Tel: (65) 6265 5355
General Enquiries: customer@nipponpaint.com.sg