POPULAR COLOURS
Also available in Clear and Nippon Paint RAL Pro-Series colours

- White: BS 9102
- Pearl: 1301
- Lilac Swish: 2043
- Yellow: 0668
- Calm Green: BS 6070
- Fresh Blue: 2041
- Ivory: BS 4052
- Venus: 1406
- Golden Yellow: BS 356
- Dark Green: 1458
- Blue: 0139
- Ash Grey: BS 9093
- Misty Grey: 1457
- Orange: 0823
- Grass Green: 028
- Bright Blue: 0632
- Executive Grey: 0104
- Medium Grey: 2034
- Signal Red: BS 537
- Lime Green: 1459
- Aluminum: Only available for Hi-Pilen 50-Oct
- Black: BS 9103
- Admiralty Grey: 2018

*Premium Colour

All colours shown in this card are as close to actual Nippon Paint colours as modern printing techniques permit.
**Hi-Pon 40-04**

**Epoxy**

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

**Painting System**

<table>
<thead>
<tr>
<th>Type of Surface</th>
<th>Type of Paint</th>
<th>No. Of Coat(s)</th>
<th>Dry Film Thickness (microns)</th>
<th>Theoretical Coverage</th>
<th>Application Medium</th>
<th>Drying Time (Hours)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concrete/Patio</td>
<td>Hi-Pon 50-04</td>
<td>1</td>
<td>50</td>
<td>10.2m²/2</td>
<td>Brush, Roller</td>
<td>2-3</td>
</tr>
<tr>
<td></td>
<td>Hi-Pon 40-04</td>
<td>2</td>
<td>80</td>
<td>9.0m²/2</td>
<td>Brush, Roller</td>
<td>2-3</td>
</tr>
</tbody>
</table>

**Surface Preparation for Concrete**

1. Remove the laitance by mechanical means, etc, and flush with water. The concrete should be sufficiently sound and free from all defective or non-structural materials with a moisture content not exceeding 4% (by weight) of the depth of concrete prior to the application of the paint system.

2. For new painting: Concrete structures should be acid-treated in accordance with SSPC-SP 1 with the specified proportion.

3. Ensure the surfaces are well-prepared before the application of primer. Identify other defects and if necessary, apply a primer coat before painting.

4. For concrete floor: Make the surface as smooth and hard as possible without the use of mechanical means.

5. For concrete floor: Make the surface as smooth and hard as possible without the use of mechanical means.

6. For concrete floor: Make the surface as smooth and hard as possible without the use of mechanical means.

**Preparation Guide**

<table>
<thead>
<tr>
<th>Step</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>Clean the surface thoroughly. Seal any cracks using Nippon Anti-Fungus Solution.</td>
</tr>
<tr>
<td>02</td>
<td>Remove any rust or grease from the surface.</td>
</tr>
<tr>
<td>03</td>
<td>Sand the substrate to ensure a smooth finish.</td>
</tr>
<tr>
<td>04</td>
<td>Wash the surface with soap and water.</td>
</tr>
<tr>
<td>05</td>
<td>Apply the recommended primer when necessary.</td>
</tr>
</tbody>
</table>

**Nippon Anti-Fungus Solution**

A solution used to exterminate growth of fungus or algae materials, especially in tropical and subtropical regions. It is recommended for use in concrete surfaces, to prevent fungal growth in the near future.

**Notes**

- The performance of the product will depend upon the degree of surface preparation.
- The performance of the paint system will depend upon the degree of surface preparation.
- Ensure the surfaces are well-prepared before the application of primer. Identify other defects and if necessary, apply a primer coat before painting.
**POPULAR COLOURS**

Also available in Clear and Nippon Paint RAL Pro-Series colours:

<table>
<thead>
<tr>
<th>Base 22</th>
<th>Base 44</th>
<th>Base YY</th>
<th>Premium Colour</th>
<th>Base 33</th>
<th>Base 11</th>
</tr>
</thead>
<tbody>
<tr>
<td>White</td>
<td>0102</td>
<td>Red</td>
<td>0154</td>
<td>Green</td>
<td>0303</td>
</tr>
<tr>
<td>Black</td>
<td>0116</td>
<td>Blue</td>
<td>0206</td>
<td>Yellow</td>
<td>0403</td>
</tr>
<tr>
<td>Orange</td>
<td>0603</td>
<td>Gold</td>
<td>0703</td>
<td>Brown</td>
<td>0803</td>
</tr>
<tr>
<td>Olive</td>
<td>0903</td>
<td>Silver</td>
<td>1003</td>
<td>Burgundy</td>
<td>1103</td>
</tr>
</tbody>
</table>

**Hi-Pon 40-04 Epoxy**

Hi-Pon 40-04 is a two-component amino-alkyd 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. It is to be applied over concrete, the surface should be acid-treated prior to application. It is widely used in infrastructure, petrochemical plants, power plants and other heavy-duty industries.

**FOR INTERIOR**

<table>
<thead>
<tr>
<th>Type of Surface</th>
<th>Type of Paint</th>
<th>No. Of Coat(s)</th>
<th>Dry Film Thickness (microns)</th>
<th>Theoretical Coverage</th>
<th>Application Method</th>
<th>Remothing Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concrete/Plastic</td>
<td>Hi-Pon 50-01 Polyurethane</td>
<td>2</td>
<td>100</td>
<td>50m²</td>
<td>Air Spraying, Conventional Roll, Brush</td>
<td>3-4 hours</td>
</tr>
</tbody>
</table>

**SURFACE PREPARATION FOR CONCRETE**

1. **Overcoating**
   - Use Hi-Pon Anti Fungus Solution for fungicidal protection. If the surface is not fungicidal, use Nippon Oil & Grease Remover.
   - Oil, grease and other contaminants should be removed by mechanical means, e.g., scarifying, blasting or grinding.
   - Remove the laitance by mechanical means, etc., with the specified proportion.

2. **For Concrete Floor**
   - The concrete substrate should be sufficiently sound and free from all defective or poorly adhering material with sufficient surface area to be painted. Steel reinforcement should be covered with a waterproofing membrane in place. Moisture in the near future. For new painting: Concrete structures should be thoroughly cleaned and dried;
   - Those embedded, should be treated with Nippon Anti Fungus Solution only with recommended thinner when necessary.

3. **For Exterior**
   - Surface preparation for concrete is the same as for any other surface prepared for exterior exposure.
   - For Concrete Floor: Use Hi-Pon 40-04 Epoxy Remover.
   - For Concrete Slab: Use Nippon Oil & Grease Remover. Follow the instruction for using remover.

4. **Painting**
   - For new painting: Concrete structures should be thoroughly cleaned and dried;
   - Those embedded, should be treated with Nippon Anti Fungus Solution only with recommended thinner when necessary.

5. **Painting**
   - The performance of the paint system will depend on the quality of the surface preparation. Nippon Paint recommends the use of Nippon Oil & Grease Remover as a surface cleaner. Nippon Anti Fungus Solution as a fungicidal treatment; and sandblasting or scarifying for rough surfaces. Nippon Oil & Grease Remover should be used to remove old coatings or rust from the surface to be painted.

**FOR EXTERIOR**

<table>
<thead>
<tr>
<th>Type of Surface</th>
<th>Type of Paint</th>
<th>No. Of Coat(s)</th>
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<td>Concrete/Plastic</td>
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<td>2</td>
<td>100</td>
<td>50m²</td>
<td>Air Spraying, Conventional Roll, Brush</td>
<td>3-4 hours</td>
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**Painting System**

For Concrete Slab:
- Surface preparation for concrete is the same as for any other surface prepared for exterior exposure.
- For Concrete Floor: Use Hi-Pon 40-04 Epoxy Remover.
- For Concrete Slab: Use Nippon Oil & Grease Remover. Follow the instruction for using remover.

**Painting**

For new painting: Concrete structures should be thoroughly cleaned and dried;
- Those embedded, should be treated with Nippon Anti Fungus Solution only with recommended thinner when necessary.

**Notes**

1. Black is available in Clear and Nippon Paint RAL Pro-Series colours.
2. Pintex is a two-component amine-adduct cured epoxy finish for use on steel and cement surfaces, designed for durability, gloss level and colour retention. It is widely used in infrastructure, petrochemical plants, power plants and other heavy-duty industries.
3. Nippon Paint recommends the use of Nippon Oil & Grease Remover as a surface cleaner. Nippon Anti Fungus Solution as a fungicidal treatment; and sandblasting or scarifying for rough surfaces. Nippon Oil & Grease Remover should be used to remove old coatings or rust from the surface to be painted.

**Surface Preparation for Concrete**

1. **Overcoating**
   - Use Hi-Pon Anti Fungus Solution for fungicidal protection. If the surface is not fungicidal, use Nippon Oil & Grease Remover.
   - Oil, grease and other contaminants should be removed by mechanical means, e.g., scarifying, blasting or grinding.
   - Remove the laitance by mechanical means, etc., with the specified proportion.

2. **For Concrete Floor**
   - The concrete substrate should be sufficiently sound and free from all defective or poorly adhering material with sufficient surface area to be painted. Steel reinforcement should be covered with a waterproofing membrane in place; Moisture in the near future. For new painting: Concrete structures should be thoroughly cleaned and dried;
   - Those embedded, should be treated with Nippon Anti Fungus Solution only with recommended thinner when necessary.

3. **For Exterior**
   - Surface preparation for concrete is the same as for any other surface prepared for exterior exposure. Nippon Paint recommends the use of Nippon Oil & Grease Remover as a surface cleaner. Nippon Anti Fungus Solution as a fungicidal treatment; and sandblasting or scarifying for rough surfaces. Nippon Oil & Grease Remover should be used to remove old coatings or rust from the surface to be painted.

4. **Painting**
   - For new painting: Concrete structures should be thoroughly cleaned and dried;
   - Those embedded, should be treated with Nippon Anti Fungus Solution only with recommended thinner when necessary.

**Notes**

1. Black is available in Clear and Nippon Paint RAL Pro-Series colours.
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SURFACE PREPARATION FOR METAL

MILD METAL

01

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

02

Ensure surface is clean, dry and free from containments.

03

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

04

Apply the specified coating system in specified coat thickness. Over-coating time has been exceeded, abrade the surface with sand-paper before subsequent coatings.

GALVANISED METAL

01

Surface blast or light sweep sanding to remove all paint. Care must be taken not to remove the galvanized surface. The performance of the paint system will depend upon the degree of surface preparation.

02

When the surface is well-prepared (SA 2-5 ISO 8501-1:2007), the product system will deliver the expected performance.

03

Mix the paint in the specified mixing ratio. Dilute only with recommended thinner when necessary with the specified proportion. The recommended thinner is Hi-Pon 40-04 Epoxy thinner.

04

Apply the specified coating system in specified coat thickness. Over-coating time has been exceeded, abrade the surface with sand-paper before subsequent coatings.

DAMAGED, CORRODED & TOUCH-UP/REPAIR

01

Carry out mechanical surface preparation to damaged/Corroded area to SA 2-5 (SSPC-SP3) through area brush sanding, abrasive blast or grinding with recommended abrasive.

02

Ensure surface is clean, dry and free from containments.

03

Apply Hi-Pon 40-04 Epoxy or Hi-Pon 50-01 Polyurethane (2 coats) over damaged/Corroded areas. Ensure surface is clean, dry and free from containments.

04

Apply Hi-Pon 20-03 over damaged/Corroded areas. Ensure surface is clean, dry and free from containments.

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SURFACE PREPARATION FOR METAL

MILD METAL

1. Wash and dry surfaces to leave no water marks.
2. Remove any previous coatings, rust, or corrosion.
3. Make sure the surface is clean and free from contaminants.
4. Paint the edges and difficult to reach areas first.
5. Carefully apply paint according to the specified application method.
6. Allow the paint to dry and observe the interval before over-coating.

GALVANISED METAL

1. Sandblast or light hand sanding to remove surface rust.
2. Remove any previous coatings, rust, or corrosion.
3. Make sure the surface is clean and free from contaminants.
4. Paint the edges and difficult to reach areas first.
5. Carefully apply paint according to the specified application method.
6. Allow the paint to dry and observe the interval before over-coating.

DAMAGED, CORRODED & TOUCH-UP/REPAIR

1. Carry out mechanical surface preparation to remove damaged or corroded areas.
2. Sandblast or light hand sanding to remove surface rust.
3. Make sure the surface is clean and free from contaminants.
4. Paint the edges and difficult to reach areas first.
5. Carefully apply paint according to the specified application method.
6. Allow the paint to dry and observe the interval before over-coating.

Note: Proper surface preparation is crucial for a successful paint system. Always follow the manufacturer’s recommendations for the best results.