Hi-Pon 20-14 Epoxy U-Coat is a two-pack, high solids epoxy which can be used as primer or finish coat.

As a primer or finishing coat for steel structures on its own or in combination with various systems. Provides corrosion protection for up to C4 environment. A top coat should be used for cosmetic finish.

**PRODUCT DESCRIPTION**

**INTENDED USE**

**GENERAL PROPERTIES**

- **Colour**: Grey
- **Gloss Level**: Semi-Gloss
- **Volume Solids, %**: 73 ± 2 %
- **Specific Gravity**: 1.26 – 1.30 kg/l (Mixed)
- **Flash point**: Base: 23°C Hardener: 13.3°C Mix: 13.3°C
- **VOC**: 246 g/L (EPA Method 24)
- **Typical Thickness**: 100 – 200 um dry film
  140 – 280 um wet film

**SURFACE PREPARATION**

All surfaces should be clean, dry and free from contamination. The surface should be assessed and treated in accordance with ISO 8504. Oil or grease should be removed in accordance with SSPC-SP1 solvent cleaning.

**Abrasive Blast Cleaning**

Abrasive blast cleaning to Sa 2½ (ISO 8501-1:2007) or SSPC-SP6. For optimum performance, blast cleaned to SSPC-SP10 with a surface profile of 50 – 75 microns (2 – 3 mils). If oxidation has occurred between the blasting and application of this product, the surface should be re-blasted to the specified visual standard. Surface defect revealed by the blast cleaning process should be ground, filled or treated in the appropriate manner.

**Shop Primer Surface**

This product is suitable for application to the unweathered steelwork freshly coated with approved shop primers. Other types of shop primer are not suitable for over coating and will required complete removal by abrasive blast cleaning. Weld seams and damaged areas should be blast cleaned to Sa 2½ (ISO 8501-11:2007) or SSPC-SP6, to achieve surface profile 50 – 75 µm.

**Damaged Area**

Damage area should be prepared with abrasive blast cleaning to Sa 2½ (ISO 8501-1:2007). When abrasive blasting is not possible, mechanical cleaning to St 3 (ISO 8501-1:2007) is acceptable.

Hi-Pon 20-14 Epoxy U-Coat should be applied over a surface that is dry and free from all contamination and must be applied within the overcoating intervals specified (refer to relevant product data sheet)
Other Surfaces
The coating may be used on other substrates. Please contact your local Nippon Paint office for more information.

Avoid paint application when the temperature is below 10°C or relative humidity is over 85%. The temperature of steel surface must be minimum 3°C above dew point of surrounding air.

**APPLICATION GUIDE**

**Mixing Ratio**
- Base : Hardener = 2.2 : 1 (by volume)
  - Base and hardener should be mixed thoroughly before use.

**Pot Life**
- 25°C
  - 1.5 hours

**Theoretical Coverage**
- 7.3 m²/litre at 100 μm DFT
- 3.6 m²/litre at 200 μm DFT

**Thinner**
- Hi-Pon Epoxy Thinner

Airless spray is recommended for application. Brush and roller are recommended for stripe coating and small areas. Care must be taken to achieve the specified dry film thickness.

**APPLICATION DETAILS**

**Airless Spray**
- Tip Size : 0.017” – 0.031”
- Pressure at nozzle : > 200 kg/cm²

**Typical Thickness**
- 100 – 200 μm dry film
- 140 – 280 μm wet film

**Drying Time**
- Substrate Temperature : 25°C 40°C
  - Surface Dry : 2 hrs 1.5 hrs
  - Through Dry : 3.5 hrs 3 hrs
  - Cured : 7 days 4 days
  - Dry to recoat (min) : 3.5 hrs 3 hrs
  - Dry to recoat (max) : 7 days 4 days

The given data must be considered as guidelines only. The actual drying time/times before recoating may be shorter or longer, depending on film thickness, ventilation, humidity, underlying paint system, requirement for early handling and mechanical strength etc. A complete system can be described on a system sheet, where all parameters and special conditions could be included.
The following Topcoats are recommended for Hi-Pon 20-14 Epoxy U-Coat:

**Topcoat**
- Hi-Pon 40-02 Epoxy Top Coat
- Hi-Pon 40-04 Epoxy Top Coat
- Hi-Pon 50-01 Polyurethane Top Coat
- Hi-Pon 50-03 Polyurethane Top Coat

For the choice of coating system for different application, refer to the product brochure or contact Nippon Paint for professional recommendation.

### Packaging

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<th>Unit</th>
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<th>Hardener Vol</th>
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<td>10.0 L</td>
<td>20 L</td>
<td>4.5 L</td>
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### Safety Precaution

- This product is intended for use of professional applicators. Refer to the safety information display on the container and in the safety data sheet (SDS) before using the product.
- Use this product in well-ventilated area, avoid skin contact, spillage on the skin should immediately be removed with suitable cleanser, soap and water.
- Eye should be well flush with water and seek for medical attention immediately upon contact with this product.
- During the application, naked flame, welding operation and smoking is not allowed. Adequate ventilation should be provided.
- If you have any doubt regarding the suitability of use, refer to Nippon Paint for further advice.

### Disclaimer

The information in this data sheet is given to the best of Nippon Paint’s knowledge and practical experience. Users may consult with Nippon Paint on the general suitability of the product for their needs and specific application practices though it remains each user’s responsibility to ensure the suitability for a particular application.
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