



# HI-PON 300HT CUI

## TECHNICAL DATA SHEET

### PRODUCT DESCRIPTION

**Hi-Pon 300HT CUI** is a two-pack, high solids epoxy phenolic coating with excellent corrosion resistance when used to protect steelwork under thermal insulation in areas subjected to wet and dry cycling. It also offers good chemical resistance.

### INTENDED USE

It is specially designed for use as an external coating for protection of steelwork from corrosion under thermal insulation (CUI). It is also suitable to protect insulated & uninsulated pipework and process vessels operating at temperatures up to 260°C.

### GENERAL PROPERTIES

<b>Colour</b>	: White & Grey
<b>Gloss Level</b>	: Matt
<b>Volume Solids, %</b>	: 80 ± 2 %
<b>Specific Gravity</b>	: 1.56 kg/l (Mixed)
<b>Flash point</b>	: Base: 13.3°C Hardener: 35°C Mix: 13.3°C
<b>VOC</b>	: 180 g/L (EPA Method 24)
<b>Typical Thickness</b>	: 100 – 200 µm dry film : 125 – 250 µm wet film

### SURFACE PREPARATION

All surfaces should be clean 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.

#### Damaged Area

Damage area should be prepared with abrasive blast cleaning to Sa 2½ (ISO 8501-1:2007). When abrasive blasting in small area is not possible, mechanical cleaning to St 3 (ISO 8501-1:2007) is acceptable. After the surface preparation, the application of Hi-Pon 300HT CUI can be performed.

Hi-Pon 300HT CUI 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 application section for details).



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### Other Surfaces

The coating may be used on other substrates. Please contact your local Nippon Paint office for more information.

### CONDITION DURING APPLICATION

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

### APPLICATION GUIDE

**Mixing Ratio** : Base : Hardener = 3.2 : 1 (by volume)  
Base and hardener should be mixed thoroughly before use.

**Pot Life** : 25°C  
1 hour

**Theoretical Coverage** : 8.0 m<sup>2</sup>/litre at 100µm DFT  
4.0 m<sup>2</sup>/litre at 200µm DFT

**Thinner** : Hi-Pon Epoxy Thinner

### APPLICATION METHOD

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 : 0.018" – 0.026"  
Pressure at nozzle : 140 – 170 kg/cm<sup>2</sup>

**Typical Thickness** : 100 – 200 µm dry film  
: 125 – 250 µm wet film

**Drying Time** : Substrate Temperature : 25°C      40°C  
Surface Dry : 2 hrs      1 hr  
Through Dry : 7 hrs      5 hrs  
Cured : 10 days      7 days  
Dry to recoat (min) : 7 hrs      5 hrs  
Dry to recoat (max) : 21 days      14 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.



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### RECOMMENDED PAINTING SYSTEM

Hi-Pon 300HT CUI is self-priming and normally applied as a 2-coat system which therefore not recommended for application over other primers/topcoats.

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

### PACKAGING

Unit	Base		Hardener	
	Vol	Container Size	Vol	Container Size
20 L	15.2 L	20 L	4.8 L	5 L

### STORAGE

**Shelf life** : Part A: 12 months (25°C)  
Part B: 12 months (25°C)

Subject to re-inspection thereafter. Higher temperature during storage may reduce the shelf life and may lead to gelling in the tin. Frequent temperature cycles may also shorten the shelf life.

Store in tightly closed container in a dry, cool and well ventilated space, keep away from sources of heat and ignition.

### 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 determine the suitability of the product for the user's particular use. The condition of the substrate and application are not within Nippon Paint's control. Therefore no implied conditions, warranties or other terms will apply to the Product. Nippon Paint does not and cannot warrant the results which the user may obtain by using



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