

HI-PON 200 CUI EPOXY PHENOLIC

TECHNICAL DATA SHEET

PRODUCT DESCRIPTION	Hi-Pon 200 CUI Epoxy Phenolic is a two-pack self-priming 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 200 °C.				
GENERAL PROPERTIES	Colour Gloss Level Volume Solid Specific Gravity Flash Point VOC Typical Thickness	: Off-White & Grey : Matt : 64 ± 2 % : 1.46 ± 0.05 kg/l (Mixed) : Base: 13.3 °C Hardener: 35 °C Mix: 13.3 °C : 342 g/L (EPA Method 24) : 100 – 150 μm dry film 156 – 234 μm 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. <u>Abrasive Blast Cleaning</u> For optimum performance, abrasive blast clean to Sa $2\frac{1}{2}$ (ISO 8501-1) or 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. <u>Damaged Area</u> Damage area should be prepared with abrasive blast cleaning to Sa $2\frac{1}{2}$ (ISO 8501-1) or SSPC-SP10. When abrasive blasting is not possible, mechanical				
	should be applied over Other Surfaces	501-1) or SSPC-SP3 is acceptable. Hi-Pon 200 CUI a surface that is dry and free from all contamination. used on other substrates. Please contact your local more information.			



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CONDITION DURING APPLICATION	Avoid paint application when the temperature is below 10 °C and relative humidity is above 85 %. The temperature of steel surface must be minimum 3 °C above dew point of surrounding air. Ensure proper ventilation to have air movement to remove solvent.					
APPLICATION GUIDE	Mixing Ratio	: BASE : HARDEN 5.9 : 1	IER (by volume)			
			hardener should be mixed thoroughly e with a mechanical agitator			
	Pot Life	: <u>25 °C</u> 4 hours				
	Theoretical Coverage	•	6.4 m²/litre at 100 μm DFT 4.3 m²/litre at 150 μm DFT			
	Thinner	: Hi-Pon Epoxy Thinner				
	Cleaner	: 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 Pressure at nozzle	: 0.018" – 0.026" : 150 – 200 bar			
	Drying Time	: Substrate Temperature Surface Dry Through Dry Cured Dry to Overcoat (min) Dry to Overcoat (max)	25 °C 40 °C 1 hr 30 mins 6 hrs 4 hrs 10 days 7 days 6 hrs 4 hrs 10 days 7 days 21 days 14 days			
	Hi-Pon 200 CUI Epoxy Phenolic can be applied to hot substrates with surface temperatures up to 150 $^\circ\text{C}$ with a maximum of 125 μm dry film thickness.					
	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.					



HEAT RESISTANCE	The tempera properties ma	uous : 209 m : - 40 ttent : 230 emperature o tures listed r ay suffer at th ing system. I	0 °C) °C duration – 1 hour ma elate to retention of nese temperatures. f used as part of a s	protective p Heat resista	roperties. Aesthetic nce is influenced by re all coatings in the		
RECOMMENDED COATING SYSTEM	 Hi-Pon 200 CUI is normally applied directly to steel: On Sa 2½, 2 coats x 100 μm dry film thickness Total thickness must not exceed 250 μm. 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					
		Volume	Container Size	Volume	Container Size		
	5 L	4.28 L	5 L	0.72 L	1 L		
	20 L	17.1 L	20 L	2.9 L	5 L		
STORAGE	Shelf Life Base : 12 months (25 °C) Hardener : 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. 						



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- 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 the product. In no event will Nippon Paint be liable to the user for any kind of loss (whether direct or indirect) even if Nippon Paint was previously advised of it. In line with Nippon Paint's policy for continuous development, Nippon Paint reserves the right to modify the product and the information in this data sheet without prior notice. It is the user's responsibility to check with Nippon Paint for the latest version of this data sheet. This data sheet has been translated into various languages. In the event of any inconsistency, the English version shall prevail.