

HI-PON 20-03 EPOXY RED OXIDE PRIMER

TECHNICAL DATA SHEET

PRODUCT DESCRIPTION	epoxy primer designed for	d Oxide Primer is a two-pack amine-adduct cured or use as a high performance primer for many types um, galvanizing, steelwork, concrete, GRP and
INTENDED USE	within the civil engineeri	n corrosion of both ferrous and non ferrous surfaces ng and building industry, and as lining systems for and fuel storage tanks, palm oil derivatives and
GENERAL PROPERTIES	Colour Gloss Level Volume Solids, % Specific Gravity Flash point VOC Typical Thickness	: Reddish Brown : Matt : 50 ± 2 % : 1.20-1.40 kg/l (Mixed) : Base: 22°C Hardener: 24°C Mix: 21°C : 488 g/L (mix, by calculation) : 60 – 80 ųm dry film : 120 – 160 ųm wet film
SURFACE PREPARATION	should be assessed and a Oil or grease should b cleaning. <u>Abrasive Blast Cleaning</u> Abrasive blast cleaning to 50 – 85 μm. If oxidation this product, the surface Surface defect revealed b or treated in the appropria <u>Shop Primer Surface</u> This product is suitable coated with Zinc silicate s or widely scattered brea blasting will be necessary coating and will required	 clean, dry and free from contamination. The surface treated in accordance with ISO 8504. e removed in accordance with SSPC-SP1 solvent o Sa 2½ (ISO 8501-1:2007) to achieve surface profile has occurred between the blasting and application of should be re-blasted to the specified visual standard. by the blast cleaning process should be ground, filled ate manner. for application to the unweathered steelwork freshly shop primers. If the Zinc shop primer shows extensive addown or excessive zinc corrosion, overall sweep y. Other types of shop primer are not suitable for over complete removal by abrasive blast cleaning. Weld eas should be blast cleaned to Sa 2½ (ISO 8501-



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	8501-1:2007). When abrasi	repared with abrasive blast cleaning to Sa 2½ (ISO ve blasting in small area is not possible, mechanical 1:2007) is acceptable. After the surface preparation, 0-03 can be performed.			
	Hi-Pon 20-03 should be applied over a surface that is dry and free fro contamination and must be applied within the overcoating intervals spect (refer to application section for details).				
	<u>Other Surfaces</u> The coating may be used Nippon Paint office for more	d on other substrates. Please contact your local e information.			
CONDITION DURING APPLICATION		hen the temperature is below 10°C and relative temperature of steel surface must be a minimum rounding air.			
APPLICATION GUIDE	Mixing Ratio	: Base: hardener = 9:1 (by volume) Base and hardener should be mixed thoroughly before use.			
	Pot Life	: 25°C 6 - 7 Hrs			
	Theoretical Coverage	: 6.2 m²/litre at 80µm DFT			
	Thinner	: Hi-Pon Epoxy Thinner			
APPLICATION METHOD		stripe coating and very small areas. For best result, must be taken to achieve the specified dry film			
APPLICATION DETAILS	Airless Spray	: Tip Size : 0.017" – 0.031" Pressure at nozzle : 140 – 170 kg/cm2			
	Typical Thickness	: 60 – 80 ųm dry film : 120 – 160 ųm wet film			
	Drying Time	: Substrate Temperature: 25°C40°CSurface Dry: 1hr0.5hrsThrough Dry: 6hrs3hrsCured: 7days3days			



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Dry to recoat (min) : 6hrs 3hrs Dry to recoat (max) * : Extended

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. * Where an "extended" overcoating time is stated, consult Nippon Paint Protective Coatings for recommended surface preparation to achieve optimal intercoat adhesion.

RECOMMENDED PAINTING SYSTEM	The following Inter	mediate/Topcoats are rec	commende	d for Hi-Pon 20-03:			
	Intermediate	Intermediate					
	 Hi-Pon 20- 	Hi-Pon 20-04 STE 80					
	 Hi-Pon 20-04 STE MIO 80 						
	 Hi-Pon 30- 	 Hi-Pon 30-01 Epoxy Midcoat 70 					
		 Hi-Pon 30-02 Epoxy MIO 80 					
		 Hi-Pon 30-03 Epoxy Midcoat 80 					
	 Hi-Pon 30-04 Epoxy MIO 70 						
	Topcoat	Topcoat					
	 Hi-Pon 40- 	 Hi-Pon 40-02 Epoxy Top Coat 					
	 Hi-Pon 40- 	 Hi-Pon 40-04 Epoxy Top Coat 					
	 Hi-Pon 50- 	01 Polyurethane Top Coa	t				
	For the choice of coating system for different application, refer to the pro						
		coating system for different	ent applica	tion, reter to the pr			
		coating system for different of Nippon Paint for profess		=			
	brochure or contac	t Nippon Paint for profess		mmendation.			
PACKAGING	brochure or contact	et Nippon Paint for profess	sional reco	mmendation. Hardener			
PACKAGING	brochure or contac	et Nippon Paint for profess		mmendation.			
PACKAGING	brochure or contact	Base Container Size	sional reco	mmendation. Hardener			

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.

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



TECHNICAL DATA SHEET

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.

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