

# HI-PON 40-04 EPOXY TOP COAT

## **TECHNICAL DATA SHEET**

PRODUCT DESCRIPTION	<b>Hi-Pon 40-04 Epoxy Top Coat</b> is a two-pack amine-adduct cured epoxy finish coat for use on steel and concrete surfaces where chemical, oil and abrasion resistant coating is required. Hi-Pon 40-04 Epoxy Top Coat is also available in non-skid quality.	
INTENDED USE	other steel structure	as a top coat for pipelines, equipment, machinery and es in chemical factory, power plant and etc. n-immersion services and interior use.
GENERAL PROPERTIES	Colour	: Standard colours as per colour cards Special colours available upon request
	Gloss Level	Gloss
	Volume Solid	: 51 ± 2 %
	Specific Gravity	: 1.25 ± 0.10 kg/l (Mixed) – depending on colours
	Flash Point	: Base: 23 °C Hardener: 23 °C Mix: 23 °C
	VOC	: 535 g/L (EPA Method 24)
	Typical	: 50 – 100 µm dry film
	Thickness	98 – 196 μm wet film
	Comply with National te limits of Lead content in	echnical regulation QCVN 08:2020/BCT on the paints.
SURFACE PREPARATION	should be assessed ar	clean dry, and free from contamination. The surface nd treated in accordance with ISO 8504. Oil or grease accordance with SSPC-SP1 solvent cleaning.
	(ISO 8501-1) or SSP mechanical cleaning to	be prepared with abrasive blast cleaning to Sa 2½ C-SP10. When abrasive blasting is not possible, o St3 (ISO 8501-1) or SSPC-SP3 is acceptable. After n, patch suitable primer prior to the application of Hi-
	surfaces should be cle agents, efflorescence loose or disintegrating	be properly cured prior to coating application. All ean and free from laitance, curing compounds, release , grease, oil, dirt, organic growth, old coatings and g concrete. Surface preparation should be done in -SP13 / NACE No. 6. A suitable primer or sealer is ng application.
	<u>Other Surfaces</u> The coating may be u Nippon Paint office for r	sed 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.			
APPLICATION GUIDE	Mixing Ratio : BASE : HARDENER 4 : 1 (by volume)			volume)
		Base and hardener should be mixed thoroughly before use with a mechanical agitator		
	Pot Life	: <u>25 °C</u> 6 hours		
	Theoretical Coverage	: 10.2 m²/litre at 50 µm DF 5.1 m²/litre at 100 µm DF		
	Thinner	: Hi-Pon Epoxy Thinner		
	Cleaner	: Hi-Pon Epoxy Thinner		
		nended for stripe coating and a e specified dry film thickness.	small areas	. Care mus
APPLICATION DETAILS		e specified dry film thickness. : Tip Size	: 0.015" -	- 0.023"
APPLICATION DETAILS	be taken to achieve th Airless Spray	e specified dry film thickness. : Tip Size Pressure at nozzle	: 0.015" - : 140 – 1	– 0.023" 70 bar
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APPLICATION DETAILS	be taken to achieve th Airless Spray	e specified dry film thickness. : Tip Size Pressure at nozzle : Substrate Temperature	: 0.015" - : 140 – 1 <u>25 °C</u>	– 0.023" 70 bar <u>40 °C</u>
APPLICATION DETAILS	be taken to achieve th Airless Spray	: Tip Size Pressure at nozzle : Substrate Temperature Surface Dry	: 0.015" - : 140 – 1 <u>25 °C</u> 1.5 hrs	– 0.023" 70 bar <u>40 °C</u> 0.5 hrs
APPLICATION DETAILS	be taken to achieve th Airless Spray	<ul> <li>Example specified dry film thickness.</li> <li>Tip Size Pressure at nozzle</li> <li>Substrate Temperature Surface Dry Through Dry Cured Dry to Overcoat (min)</li> </ul>	: 0.015" - : 140 – 1 <u>25 °C</u> 1.5 hrs 7 hrs 7 days 7 hrs 7 hrs	– 0.023" 70 bar <u>40 °C</u> 0.5 hrs 3 hrs 3 days 3 hrs 3 hrs
APPLICATION DETAILS	be taken to achieve th Airless Spray	: Tip Size Pressure at nozzle : Substrate Temperature Surface Dry Through Dry Cured	: 0.015" - : 140 – 1 <u>25 °C</u> 1.5 hrs 7 hrs 7 days	– 0.023" 70 bar <u>40 °C</u> 0.5 hrs 3 hrs 3 days 3 hrs 14 days
APPLICATION DETAILS	be taken to achieve th Airless Spray Drying Time Remarks: Where an Paint Protective Coat	<ul> <li>e specified dry film thickness.</li> <li>: Tip Size Pressure at nozzle</li> <li>: Substrate Temperature Surface Dry Through Dry Cured Dry to Overcoat (min) Dry to Overcoat (max) Dry to Recoat (max)</li> <li>"extended" overcoating time is ings for recommended surface</li> </ul>	: 0.015" - : 140 – 1 <u>25 °C</u> 1.5 hrs 7 hrs 7 days 7 hrs 30 days Extended	– 0.023" 70 bar <u>40 °C</u> 0.5 hrs 3 hrs 3 days 3 hrs 14 days d
APPLICATION DETAILS	be taken to achieve th Airless Spray Drying Time Remarks: Where an Paint Protective Coati optimal intercoat adh The given data must time/times before red thickness, ventilation early handling and m	<ul> <li>e specified dry film thickness.</li> <li>: Tip Size Pressure at nozzle</li> <li>: Substrate Temperature Surface Dry Through Dry Cured Dry to Overcoat (min) Dry to Overcoat (max) Dry to Recoat (max)</li> <li>"extended" overcoating time is ings for recommended surface</li> </ul>	: 0.015" - : 140 – 1 <u>25 °C</u> 1.5 hrs 7 hrs 7 days 7 hrs 30 days Extended s stated, cor e preparatio only. The a ager, depen system, required	- 0.023" 70 bar <u>40 °C</u> 0.5 hrs 3 hrs 3 days 3 hrs 14 days d nsult Nippo n to achiev actual dryin ding on filr uirement fo stem can b



HEAT RESISTANCE	<u>Dry, Atmospheric</u>			
	<ul> <li>Continuous : 100 °C</li> <li>Minimum : - 40 °C</li> <li>Intermittent : 120 °C</li> </ul>			
	Intermittent temperature duration – 1 hour maximum			
	The temperatures listed relate to retention of protective properties. Aesthetic properties may suffer at these temperatures. Heat resistance is influenced by the total coating system. If used as part of a system, ensure all coatings in the system have similar heat resistance.			
RECOMMENDED COATING SYSTEM	The following coating systems are recommended for Hi-Pon 40-04 Epoxy Top Coat:			
	<ul> <li>Primer:</li> <li>Zinky-12 Inorganic Zinc Rich Primer 77</li> <li>Zinky-13 Inorganic Zinc Rich Primer 85</li> <li>Zinky-22 Epoxy Zinc Rich Primer 80</li> <li>Zinky-23 Epoxy Zinc Rich Primer 85</li> </ul>			

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- Hi-Pon 20-04 STE 80
- Hi-Pon 20-07 Epoxy Zinc Phosphate 70
- Hi-Pon 20-10 Epoxy Zinc Phosphate 63 .

#### Intermediate:

- Hi-Pon 20-04 STE 80
- Hi-Pon 20-04 STE IM 80
- Hi-Pon 30-02 Epoxy MIO 80
- Hi-Pon 30-03 Epoxy Midcoat 80

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	
	<u>Unit</u>	Volume	<b>Container Size</b>	Volume	<b>Container Size</b>
	5 L	4 L	5 L	1 L	1 L
	20 L	16 L	20 L	4 L	5 L

- Hi-Pon 20-03 Époxy Red Oxide Primer
- Hi-Pon 20-04 STE IM 80





### **TECHNICAL DATA SHEET**

STORAGE	Shelf Life Base : 12 months (25 °C) minimum	
	Hardener: 12 months (25 °C) minimum	
	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	<ul> <li>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.</li> </ul>	
	<ul> <li>Use this product in well-ventilated area, avoid skin contact, spillage on the skin should immediately be removed with suitable cleanser, soap and water.</li> </ul>	
	<ul> <li>Eye should be well flush with water and seek for medical attention immediately upon contact with this product.</li> </ul>	
	<ul> <li>During the application, naked flame, welding operation and smoking is not allowed. Adequate ventilation should be provided.</li> </ul>	
	<ul> <li>If you have any doubt regarding the suitability of use, refer to Nippon Paint for further advice.</li> </ul>	
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.	