

# HI-PON 50-03

POLYURETHANE TOP COAT

### **TECHNICAL DATA SHEET**

PRODUCT DESCRIPTION	aliphatic acrylic poly excellent gloss and	yurethane Top Coat is two-pack, semi-gloss yurethane finish coat. It provides high durability, colour retention. It also offers good abrasion, resistance when applied over proven systems.
INTENDED USE	maintenance finish w	se in both new construction and as an industrial hich can be used in a wide range of environments structures, refineries, power plants, bridges, s and buildings.
GENERAL PROPERTIES	Colour Gloss Level Volume Solid Specific Gravity Flash Point VOC Typical Thickness	<ul> <li>Standard colours as per colour cards Special colours available upon request</li> <li>Semi-Gloss</li> <li>58 ± 2 %</li> <li>1.29 ± 0.10 kg/l (Mixed) – depending on colours</li> <li>Base: 23 °C Hardener: 23 °C Mix: 23 °C</li> <li>370 g/L (EPA Method 24)</li> <li>50 – 80 μm dry film 86 – 138 μm wet film</li> </ul>
	Comply with National te limits of Lead content in	echnical regulation QCVN 08:2020/BCT on the
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>Damaged Area</u> Damage area should be prepared with abrasive blast cleaning to Sa 2½ (ISO 8501-1) or SSPC-SP10. When abrasive blasting is not possible, mechanical cleaning to St3 (ISO 8501-1) or SSPC-SP3 is acceptable. After the surface preparation, patch suitable primer prior to the application of Hi-Pon 50-03. <u>Other Surfaces</u> The coating may be used on other substrates. Please contact your local Nippon Paint office for 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 : HARE	DENER
		5 : 1	(by volume)
		Base and hardener thoroughly before use agitator	
	Pot Life	: <u>25 °C</u> 4 hours	
	Theoretical Coverage	: 11.6 m²/litre at 50 μm DI 7.3 m²/litre at 80 μm DF	
	Thinner	: Hi-Pon PU Thinner	
	Cleaner	: Hi-Pon PU Thinner	
APPLICATION		ended for stripe coating and s he specified dry film thickness : Tip Size Pressure at nozzle	
DETAILS	Drying Time	: Substrate Temperature	<u>25 °C</u> 40 °C
	Drying Time	Surface Dry	1 hr 0.5 hrs
		Through Dry	8 hrs 4 hrs
		Cured Dry to Overcoat (min)	7 days 4 days 8 hrs 4 hrs
		Dry to Overcoat (max)	Extended
		extended" overcoating time is ngs for recommended surface esion.	
	time/times before reconstruction, thickness, ventilation, early handling and m	be considered as guidelines oating may be shorter or lon humidity, underlying paint s echanical strength etc. A co n sheet, where all parameters	ger, depending on film ystem, requirement for mplete system can be



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HEAT RESISTANCE	Dry, Atmospheric         • Continuous       : 100 °C         • Minimum       : - 40 °C         • Intermittent       : 120 °C         Intermittent temperature duration – 1 hour maximum         The temperatures listed relate to retention of protective properties. Aesthetic				
	by the total c	oating syste	these temperatures m. If used as part o ar heat resistance.		
RECOMMENDED COATING SYSTEM	<ul> <li>The following coating systems are recommended for Hi-Pon 50-03 Polyurethane Top Coat:</li> <li>Primer: <ul> <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> <li>Hi-Pon 20-03 Epoxy Red Oxide Primer</li> <li>Hi-Pon 20-04 STE 80</li> <li>Hi-Pon 20-04 STE IM 80</li> <li>Hi-Pon 20-07 Epoxy Zinc Phosphate 70</li> <li>Hi-Pon 20-04 STE 80</li> <li>Hi-Pon 20-04 STE 80</li> <li>Hi-Pon 20-04 STE 80</li> <li>Hi-Pon 20-04 STE 1M 80</li> <li>Hi-Pon 20-04 STE 1M 80</li> <li>Hi-Pon 30-02 Epoxy MIO 80</li> <li>Hi-Pon 30-03 Epoxy Midcoat 80</li> </ul> </li> <li>For the choice of coating system for different application, refer to the product brochure or contact Nippon Paint for professional recommendation.</li> </ul>				
PACKAGING	<u>Unit</u>	Volume	<u>Base</u> Container Size		ardener Container Size

4 L

16.5 L

5 L

20 L

0.8 L

3.3 L

4.8 L

19.8 L

1 L

5 L



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STORAGE	Shelf LifeBase : 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	<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'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.