

## **TECHNICAL DATA SHEET**

PRODUCT DESCRIPTION	<b>Hi-Pon 80-23 Inorganic Zinc Tank Coating</b> is a two-pack, solvent-based coating composed of ethyl silicate and zinc dust. It is suitable for use as a single coat on steel for atmospheric and immersed environments. The type of zinc dust used complies with ASTM D 520 (Type II).			
INTENDED USE	It is specially designed for protection lining of storage tank for petroleum products and solvents, particularly dry methanol. It can be used for new build or for maintenance and repair.			
GENERAL PROPERTIES	•	: Grey : Matt : 60 ± 2 % : 2.65 ± 0.05 kg/l (Mixed) : Base: 23 °C Hardener: N/A Mix: 23 °C : 500 g/L (EPA Method 24) : 75 – 150 μm dry film 125 – 250 μm wet film s above 1000 ppm moisture content nmersion only: 5.5 - 10		
SURFACE PREPARATION	should be assessed an should be removed in a <u>Abrasive Blast Cleaning</u> For optimum performant SSPC-SP10 with a surf has occurred between the should be re-blasted to by the blast cleaning appropriate manner. <u>Damaged Area</u> Damage area should be 8501-1) or SSPC-SP10 cleaning to St3 (ISO 4 should be applied over <u>Other Surfaces</u>	nce, abrasive blast clean to Sa 2½ (ISO 8501-1) or face profile of 50 – 75 microns (2 – 3 mils). If oxidation he blasting and application of this product, the surface the specified visual standard. Surface defect revealed process should be ground, filled or treated in the e prepared with abrasive blast cleaning to Sa 2½ (ISO ). When abrasive blasting is not possible, mechanical 8501-1) or SSPC-SP3 is acceptable. Hi-Pon 80-23 a surface that is dry and free from all contamination.		



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CONDITION DURING APPLICATION	Avoid paint application when the temperature is below 10 °C and above 45 °C, or humidity is below 50 %. Increase the humidity by spraying water when humidity is below 50 %. To achieve the best film performance, humidity should be kept above 65 %. For humidity below 65%, the curing period may be extended dependent on the temperature and humidity. The temperature of steel surface must be minimum 3 °C above dew point of surrounding air.				
APPLICATION GUIDE	Mixing Ratio	: <b>BASE : HARDEN</b> 2.8 : 1 0.426 : 1 Add Hardener (Zinc Po	(by volume) (by weight) wder) into Base and		
		mixed thoroughly before a agitator.	use with a mechanical		
	Pot Life	: <u>25 °C</u> 4 hours			
	Theoretical Coverage	: 8 m²/litre at 75 µm DFT 4 m²/litre at 150 µm DFT : Zinky-2000 Thinner			
	Thinner				
	Cleaner	: Zinky-2000 Thinner			
APPLICATION METHOD	and roller are recommend	ess spray are recommended ded for stripe coating and sm cified dry film thickness. Avoi	all areas. Care must be		
APPLICATION DETAILS	Airless Spray	: Tip Size Pressure at nozzle	: 0.013" – 0.023" : 120 – 150 bar		
	Drying Time	: Substrate Temperature Surface Dry Through Dry Cured	25 °C 40 °C   10 mins 5 mins   2 hrs 1 hr   6 hrs 4 hrs		
	<b>Remarks:</b> If there are an be rectified and allowed t	• •			
	average thickness of Hi-	ve magnetic gauge should Pon 80-23 Inorganic Zinc Ta nd excessive thickness can	ank Coating after it has		



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which requires complete removal by abrasive blasting and reapplication to original specifications.

The given data must be considered as guidelines only. The actual drying time/times may be shorter or longer, depending on film thickness, ventilation, humidity, requirement for early handling and mechanical strength etc.

HEAT RESISTANCE	Dry, AtmosphericContinuous: 400 °CMinimum: - 40 °CIntermittent: 540 °C			
	Intermittent temperature duration – 1 hour maximum			
	The temperatures listed relate to retention of protective properties. Aesthetic properties may suffer at these temperatures.			
RECOMMENDED COATING SYSTEM	Hi-Pon 80-23 Inorganic Zinc Tank Coating is normally applied directly to steel as a single coat:			
	On Sa 2½, 1 coat x 100 $\mu$ m dry film thickness			
	For the choice of coating system for different application, refer to the product brochure or contact Nippon Paint for professional recommendation.			

PACKAGING	linit	Base		Hardener	
	<u>Unit</u>	Weight	<b>Container Size</b>	Weight	Container Size
	12.8 KG	3.8 KG	5 L	9 KG	5 L
	(4.8 L)	(3.5 L)		(1.3 L)	
	25.6 KG	7.6 KG	10 L	18 KG	10 L
	(9.6 L)	(7.0 L)		(2.6 L)	

STORAGE	Shelf Life	Base	: 6 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.



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## 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

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