



**NIPPON
PAINT**

**Protective
Coatings**



Coatings for Cargo Tanks

HI-PON 80-23

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Hi-Pon 80-23 Inorganic Zinc Tank Coating is a two-pack, solvent-based coating system 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 D520 (Type II).

Applications

Hi-Pon 80-23 is specially designed as a protective lining for storage tanks carrying cargo such as petroleum products and solvents, especially dry methanol. It can be used for both new builds and for maintenance and repair.

Properties

Colour	Grey		
Gloss Level	Matt		
Volume Solid	60 ± 2%		
Typical Thickness	75 – 150 µm dry film 125 – 250 µm wet film		
Theoretical Coverage	6 m ² /litre @ 100 µm DFT		
Heat Resistance – Dry, Atmospheric	Continuous – 400°C Minimum – 40°C Intermittent – 540°C		
Drying Time	Surface Temperature	25°C	40°C
	Surface Dry	10 mins	5 mins
	Through Dry	2 hrs	1 hr
	Cured	6 hrs	4 hrs

Recommended Coating System

Hi-Pon 80-23 Inorganic Zinc Tank Coating is normally applied directly to steel as a single coat.

Performance Data

Applied directly to Sa 2.5 blasted steel

Test Items	Test Method	Specification	Results
Pull-Off Adhesion	ISO 4624	100 µm DFT	Minimum 4 MPa
Salt Spray Test (5% NaCl)	ISO 9227	100 µm DFT	Passed 2,000 hrs
Methanol Immersion	ISO 2812-2	100 µm DFT	Passed 24 months
MEK Rub Test @ 75%RH	ASTM 4752	100 µm DFT	Minimum 6 hrs
Mud Cracking Resistance	-	-	No crack by visual at 150 µm DFT

Notes:

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