



Korepox M.I.O. Paint EM877 (Two-Component)

Product Description	A high-build, micaceous iron oxide (MIO) pigmented polyamide cured epoxy paint providing a hard and tough film with excellent resistance to abrasion and impact. Outstanding resistance to fresh water and against splash from petrol, jet fuel, diesel oil, lubricating oil, vegetable oils and similar products. Limited resistance to ketones, ester, etc. Not recommended for mineral acids or strong oxidizing solutions.
Recommended Use	As an intermediate or finish coat for all types of steel surfaces in moderately to severely corrosive environments, though not permanently immersed conditions.

Physical Properties

Finish and Color	Flat. Metallic Grey (9210)			
Drying Time	Substrate temperature	5 °C / 41 °F	20 °C / 68 °F	30 °C / 86 °F
	Set to touch	8 h	2 h	1 h
	Dry through	48 h	12 h	10 h
* The actual drying time is subject to the film thickness, ventilation, humidity etc., and drying time under other temperature conditions should be checked and informed by KCC.				
Solids by Volume	Approx. 52 % (Determined by ISO 3233)			
Theoretical Spreading Rate	5.2 m ² /L in 100 µm dry film thickness on a smooth surface.			
Specific Gravity	Approx. 1.80 for Mixture of Base and Curing agent.			
Flash Point	Base (EM877 PTA)	: 25 °C / 77 °F (Closed cup)		
	Curing Agent (EM877 PTB)	: 25 °C / 77 °F (Closed cup)		

Application Details

Surface Preparation	Remove any oil grease, dirt and any other contaminants from the surface before painting by proper method such as solvent cleaning and fresh water washing, etc. *Steel : Blast cleaning to Sa2.5 or Power tool cleaning St3, etc.
Application Conditions	The surface should be completely cleaned and dried. Do not apply when relative humidity is above 85 %. The surface temperatures should be at least 2.7 °C (5 °F) above dew point to prevent condensation. In confined areas, ventilate with clean air during application to assist solvent evaporation.
Mixing	Base (Part A) : Curing Agent (Part B) = 5 : 1 (by volume) Mix thoroughly together prior to application in the proportions with power agitator as delivered.
Pot Life	6 h at 20 °C / 68 °F
Preceding Coat	Korepox Primer EP170, Korepox Zinc Rich Primer EZ175, Galvany IZ180N, or according to specification
Thinning	Thinner No. 024 or Other thinner approved by KCC Do not dilute the components separately.

Disclaimer : The information in this data sheet is believed to the best of our knowledge based on laboratory test and practical experience. However, there are many factors affecting the performance of product and the product quality itself, so we are not able to guarantee without the confirmation of the purpose of using the product from us in writing. We reserve the right to change the data without notice and you should check that this data sheet is current prior to using the product.

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Application Method Spray (Airless or Air), Roller or Brush application.

For airless spray application ;

Nozzle orifice : 533 μm ~ 686 μm (0.021" ~ 0.027")

Output pressure : 15 MPa

Fan : 40 ° ~ 60 °

(Airless spray data are indicative and subject to adjustment)

Typical 100 μm dry.

Film Thickness Depending on the purpose and the area of use, different film thickness may be applied.

Recoating Interval At 20 °C / 68 °F, Minimum : 24 h
Maximum : 30 d

Before overcoating, remove the oil, salt, chalking material and any other contaminants on aged coating film completely by proper cleaning method such as solvent cleaning and/or fresh water washing.

Subsequent Coat Korepox Enamel ET574, Korethan Topcoat UT6581, or according to specification.

Shelf Life 12 months

Heat Resistance Continuous : 93 °C / 200 °F (Non-immersion service)
Non-continuous : 121 °C / 250 °F (Non-immersion service)

Chemical Resistance

	Acids	Alkalies	Solvents	Salts	Water
Splash & Spillage	Fair	Good	Good	Excellent	Excellent
Fumes	Good	Good	Good	Excellent	Excellent

Standard Packing Unit 16 L (EM877 PTA : 13.3 L, EM877 PTB : 2.7 L)

Remarks Protect skin and eyes from direct contact with liquid paint, and avoid prolonged breathing of solvent vapors.
Use with adequate ventilation.
Respiratory protection is recommended during application in confined spaces or stagnant air.

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