



A two-component, pure epoxy resin based self-priming, anti-abrasion coating with excellent resistance to seawater, crude oil, fuel oil and abrasion. Applicable to new or old steel, requiring only the removal of loose rust as a surface tolerant coating, curable at low temperature even $-18\text{ }^{\circ}\text{C}/-0.4\text{ }^{\circ}\text{F}$ and meeting VOC requirements as high solids coating. Approved as a Corrosion Control Coating for water ballast tanks by Lloyd's Register of Shipping (LR), Det Norske Veritas & Germanischer Lloyd (DNV-GL) and MARINTEK/DNV. It is in full accordance with the requirements in ACQPA Im2 System and NORSOK M-501 System No.1, no.3B and No 7.

Recommended use	<p>As an anti-corrosion and anti-abrasion coating for long-life protection of steel structures in severely corrosive environment such as Underwater hull outside, Boottop, Topside, Exposed parts of ship, Water ballast tank, Cargo holds, etc. As a tank coating for ship's crude oil tanks, fuel oil tanks and interior of pipe lines transfer crude oils, etc.</p> <p>Applicable to steel structures for offshore projects, plants, bridges and others.</p> <p>For application in water ballast tanks at newbuilding stage in accordance with PSPC (IMO Res. MSC.215(82), see the " Technical Information for PSPC Applications-Korepox EH2351"</p>
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Physical Properties	
Finish and Color	Grey, Red, etc.
Specific gravity	Approx. 1.50 for Mixture of Base and Curing agent.
Solids by volume	Approx. 72 % (Determined by ISO 3233)
Spreading rate (Theoretical)	4.5 m ² /L in 160μm dry film thickness on a smooth surface.
Flash point	Base (EH2351-A) : 26°C / 79°F (Closed cup) Curing Agent (EH2351-B) : 26°C / 79°F (Closed cup)
VOC	Max. 290g/L (Determined by ISO 11890-1)

Application details	
Surface preparation	<p>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.</p> <ul style="list-style-type: none"> - Blast cleaning to Sa2½ or power tool cleaning to St3, etc. - Profile requirements : 30 ~ 75 μm in case of full or partial blast cleaning.
Preceding coat	According to specification.
Method of application	<p>Spray : Airless or Air spray Brush and Roller : Recommended for small area and stripe coating for specified edges, welds, hard to reach areas, etc.</p> <p>For airless spray application ; Nozzle orifice : 483 μm ~ 787 μm(0.019" ~ 0.031") Output pressure : 11.7 MPa ~ 15.2 MPa Fan : 40° ~ 60° (Airless spray data are indicative and subject to adjustment)</p>
Mixing	<p>EH2351-A (Part A, Base) : EH2351-B (Part B, Curing agent) = 4 : 1 (by volume)</p> <ul style="list-style-type: none"> - Mix with supplied mixing ratio only. Do not vary or subdivide. - Before mixing, shake or stir the Base very thoroughly. - Pour the curing agent into the Base with constant mechanical stirring. Do not mix in reverse order. <p>Continuous stirring until mixture is free of lumps.</p>

Thinning	Product Name : Thinner No. 024 or Other thinner approved by KCC Thinning Ratio : Max. 10% (by volume) * Do not dilute each component separately				
Application conditions	The surface should be adequately clean and dry. Do not apply when relative humidity is above 85 %. The surface temperature should be at least 3 °C (5 °F) above dew point to prevent condensation. In confined areas, ventilate with clean air during application to assist solvent evaporation.				
Film thickness	(Per Coat)	Typical	Minimum	Maximum	
	Dry Film Thickness (μm)	160	75	*	
	Wet Film Thickness (μm)	223	104	*	
	Theoretical Spreading Rate (m ² /L)	4.50	9.60	*	
	* Max. total 2,000 μm dry (as guideline of coating application. For more detailed information, consult with TSD (Technical Service Department) in KCC)				
Drying time	Substrate temperature	5°C / 41°F	10°C / 50°F	20°C / 68°F	30°C / 86°F
	Dry to touch	8 h	3 h	1 h	0.5 h
	Dry to walk on	16 h	8 h	3 h	3 h
	Dry to hard	16 h	8 h	3 h	3 h
	* These are the results from laboratory tests done under standardized conditions. Thus, actual times may be different due to environment situations such as weather, wind and humidity, etc.				
Subsequent Coat	According to specification.				
	■ For Water Ballast Tanks 1 st Coat : Korepox EH2351 (160 μm DFT) 2 nd Coat : Korepox EH2351 (160 μm DFT) – Depending on the purpose and the area of use, different film thickness may be applied.				
Pot life	3 h at 20°C / 68°F Pot life may be shorter under higher temperature and humid conditions.				
Recoating interval	Substrate temperature	5°C / 41°F	10°C / 50°F	20°C / 68°F	30°C / 86°F
	Dry to recoat (Full / Min.)	16 h	8 h	3 h	3 h
	Dry to recoat (T/up / Min.)	16 h	8 h	3 h	2 h
	Dry to recoat (Max.)	15 d	15 d	15 d	15 d
	Dry to immersion (Full)	8 d	7 d	3 d	3 d
	Dry to immersion (T/up)	5 d	4 d	1.5 d	1 d
	* d : days, h : hours, Full : Full coat application, T/up : Touch-up application. * These are the results from laboratory tests done under standardized conditions. Thus, actual times may be different due to environment situations such as weather, wind and humidity, etc. * In curing condition of non-UV exposure, Recoating Interval is Max 18days.				
Heat resistance temperature	Continuous : 120 °C/248 °F (Non-immersion service)				
	Non-continuous : 140 °C/284 °F (Non-immersion service)				
Storage and package					
Shelf life	EH2351-A (Part A, Base) : 12 months (at 23 °C)				
	EH2351-B (Part B, Curing agent) : 24 months (at 23 °C)				
Packing Unit	15 L (EH2351-A : 12 L, EH2351-B : 3 L)				
Remarks					
Handling					

Precautions	
Note	Protect skin and eyes from direct contact with liquid paint, and avoid prolonged breathing of solvent vapors. Use with adequate ventilation. Adequate ventilation with clean air should be maintained during application and curing to assist solvent evaporation. Respiratory protection is recommended when applying this product in confined spaces or stagnant air.
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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.

