



## Korepox EH2351 (Two-Component)

<b>Product Description</b>	<p>A two-component, pure epoxy resin based self-priming, anti-abrasion coating with excellent resistance to seawater, crude oil, fuel oil and abrasion. Applicable over new or old steel requiring only the removal of loose rust as a surface tolerant coating, curable at low temperature even -18 °C/-0.4 °F and meets VOC requirements as high solids coating.</p> <p>Approved as a Corrosion Control Coating for water ballast tanks by Lloyd's Register of Shipping (LR), Germanischer Lloyd (GL), and MARINTEK/DNV. It is in full accordance with the requirements in NORSOK M-501 System No. 3 and No 7.</p>
<b>Recommended Use</b>	<p>Also approved as a Corrosion Control Coating for water ballast tanks by IMO PSPC rules.</p> <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>

### Physical Properties

<b>Finish and Color</b>	Flat. Grey (1128, 1151), Mid Buff (3362).														
<b>Drying Time</b>	<table border="1"><thead><tr><th>Substrate temperature</th><th>5 °C/41 °F</th><th>20 °C/68 °F</th><th>30 °C/86 °F</th></tr></thead><tbody><tr><td>Set to touch</td><td>8 h</td><td>1 h</td><td>30 min</td></tr><tr><td>Dry through</td><td>16 h</td><td>3 h</td><td>2 h</td></tr></tbody></table>	Substrate temperature	5 °C/41 °F	20 °C/68 °F	30 °C/86 °F	Set to touch	8 h	1 h	30 min	Dry through	16 h	3 h	2 h		
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Set to touch	8 h	1 h	30 min												
Dry through	16 h	3 h	2 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.														
<b>Solids by Volume</b>	Approx. 72 % (Determined by ISO 3233)														
<b>Theoretical Spreading Rate</b>	7.2 m <sup>2</sup> /L in 100 μm dry film thickness on a smooth surface.														
<b>Specific Gravity</b>	Approx. 1.50 for Mixture of Base and Curing agent.														
<b>Flash Point</b>	Base (EH2351-A) : 26 °C/79 °F (Closed cup) Curing Agent (EH2351-B) : 26 °C/79 °F (Closed cup)														

### Application Details

<b>Surface Preparation</b>	<p>Remove any oil, grease, dirt and any contaminant from the surface before painting by proper method such as solvent cleaning and fresh water washing, etc.</p> <p>* Steel : Blast cleaning to Sa2.5 or Power tool cleaning to St3, etc.</p>
<b>Application Conditions</b>	<p>The surface should be completely cleaned and dried. Do not apply when relative humidity is above 85 %. The surface temperature 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.</p>
<b>Mixing</b>	<p>Base (Part A) : Curing Agent (Part B) = 4 : 1 (by volume)</p> <p>Mix thoroughly together prior to application in the proportions with power agitator as delivered.</p>
<b>Pot Life</b>	3 h at 20 °C/68 °F
<b>Preceding Coat</b>	Galvany Shopprimer IZ182, Korepox EH2351, or according to specification.
<b>Thinning</b>	<p>Thinner No. 024</p> <p>Do not dilute each components separately, only the mixture.</p>

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.

# Korepox EH2351 (Two-Component)

**Application Method** Spray (Airless or Air), Roller or Brush application  
For airless spray application ;  
Nozzle orifice : 483  $\mu\text{m}$  ~ 787  $\mu\text{m}$  (0.019" ~ 0.031")  
Output pressure : 11.7 MPa ~ 15.2 MPa  
Fan : 60°  
(Airless spray data are indicative and subject to adjustment)

**Typical Film Thickness** 100 ~ 200  $\mu\text{m}$  dry.  
May be specified in another film thickness than indicated depending on purpose and area of use.

**Recoating Interval** At 20 °C / 68 °F, Minimum : 3 h  
Maximum ; - Immersion : 15 d  
- Non-immersion : Free

Prior to 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 EH2351, Korepox EH2351(GF), Korepox Topcoat H.B. ET5740, Korepox Topcoat H.B. ET5745, Korevitar H.B. EH2540, Korepox H.B. EH2560, 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	Alkalis	Solvents	Salts	Water
Splash & Spillage	Good	Good	Very Good	Excellent	Excellent
Fumes	Very Good	Excellent	Excellent	Excellent	Excellent
Immersion	Fair	Good	Good	Good	Good

**Standard Packing Unit** 16 L (EH2351-A : 12.8 L, EH2351-B : 3.2 L)

**Remarks** Do not store at temperature below 5 °C / 41 °F or above 40 °C / 104 °F.  
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 when applying this product in confined spaces or stagnant air.

**Issued** April 2009



## Korepox Primer/Sealer EP118 (Two-Component)

**Product Description** A polyamide cured epoxy resin based quick drying primer/sealer with excellent resistance to chemicals and water. It provides excellent adhesion to most substrates including concrete, wood, steel, etc. It assures excellent sealing and tight adhesion between the concrete and subsequent coat. It meets the requirements of ASTM C309 TYPE-I Moisture Retention of Concrete.

**Recommended Use** As a primer/sealer for use on concrete, wood floors or other substrate in areas where high anti-dust property is required such as nuclear power plant, electronic, precision equipment and chemical plant, etc.  
As a form-release agent and curing compound for the protection of concrete surfaces during the construction.

### Physical Properties

**Finish and Color** Gloss. Clear

Drying Time	Substrate temperature	5 °C/41 °F	20 °C/68 °F	30 °C/86 °F
	Set to touch	4 h	2 h	1 h
Dry through	36 h	12 h	10 h	
Fully cured	5 d	3 d	2 d	

\* 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. 28 % (Determined by ISO 3233)

**Theoretical Spreading Rate** 5.6 m<sup>2</sup>/L in 50 μm dry film thickness on a smooth surface.

**Specific Gravity** Approx. 0.90 for Mixture of Base and Curing agent.

**Flash Point** Base (EP118 PTA) : 1 °C/34 °F (Closed cup)  
Curing Agent (EP118 PTB) : 28 °C/82 °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 Sa 2.5 or power tool cleaning to St3, etc.  
\* Concrete : Must be cured at least 28 days at 20 °C/68 °F and below 80 % R.H., and surface must be grinding or abrasive blasted to remove laitance and other impurities. Moisture content of the concrete surface must be below 6 %.

**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) = 1 : 1 (by volume)  
Mix thoroughly together prior to application in the proportions with power agitator as delivered.

**Pot Life** 8 hours at 20 °C/68 °F

**Thinning** Thinner No. 0642  
Do not dilute components separately, only the mixture.

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## Korepox Primer/Sealer EP118 (Two-Component)

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<b>Application</b>	Spray(air or airless), Roller or Brush application.
<b>Method</b>	For airless spray application ; Nozzle orifice : 381 $\mu\text{m}$ ~ 432 $\mu\text{m}$ (0.015" ~ 0.017") Output pressure : 13.8 MPa (Airless spray data are indicative and subject to adjustment)
<b>Typical</b>	50 $\mu\text{m}$ dry.
<b>Film Thickness</b>	May be specified in another film thickness than indicated depending on purpose and area of use.
<b>Recoating Interval</b>	At 20 °C/68 °F, Minimum : 12 h Maximum : Free  Prior to 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.
<b>Subsequent Coat</b>	Korepox Filler EC264(H), Korepox F.C EU254, Korepox F.C EU225(H), Korepox Color Mortar ER2233, or according to specification.
<b>Shelf Life</b>	12 months Store in cool, dry, well-ventilated place.
<b>Standard Packing Unit</b>	16 L (PTA : PTB = 8 L : 8 L).
<b>Remarks</b>	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 when applying this product in confined spaces or stagnant air.
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