Korepox
EH2351 (Two-Component)

Product Description

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 ℃/-0.4 ˚F and meets VOC requirements as high solids coating.
Approved as a Corrosion Control Coating for water ballast tanks by Lloyd's Register of Shipping (LR), Germanishier Lloyd (GL), and MARINTEK/DNV. It is in full accordance with the requirements in NORSOK M-501 System No. 3 and No 7.

Recommended Use

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.
Applicable to steel structures for offshore projects, plants, bridges and others.

Physical Properties

Finish and Color

Flat. Grey (1128, 1151), Mid Buff (3362).

Drying Time

Substrate temperature	5 ℃/41 ˚F	20 ℃/68 ˚F	30 ℃/86 ˚F
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.

Solids by Volume

Approx. 72 % (Determined by ISO 3233)

Theoretical Spreading Rate

7.2 ㎡/L in 100 ㎛ dry film thickness on a smooth surface.

Specific Gravity

Approx. 1.50 for Mixture of Base and Curing agent.

Flash Point

Base (EH2351-A) : 26 ℃/79 ˚F (Closed cup)
Curing Agent (EH2351-B) : 26 ℃/79 ˚F (Closed cup)

Application Details

Surface Preparation

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.
* Steel : Blast cleaning to Sa2.5 or Power tool cleaning to St3, St2, etc.

Application Conditions

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 ℃ (5 ˚F) above dew point to prevent condensation. In confined areas, ventilate with clean air during application to assist solvent evaporation.

Application Limitation

Low flame spread surface material, not generating excessive quantities of smoke nor toxic products in fire. Approved for use on metallic substrates of minimum 3.75 mm thickness according to IMO MSC/Circ. 1004. Maximum gross calorific value shall be documented separately where applicable, ref. SOLAS Chapter II-2 Reg. 5.3.2. Each product is to be supplied with its manual for installation and use.

Mixing

Base (Part A) : Curing Agent (Part B) = 4 : 1 (by volume)
Mix thoroughly together prior to application in the proportions with power agitator as delivered.

Pot Life

3 h at 20 ℃/68 ˚F

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Preceding Coat
Galvany Shopprimer IZ182, Korepox EH2351, or according to specification.

Thinning
Thinner No. 024
Do not dilute each components separately, only the mixture.

Application Method
Spray (Airless or Air), Roller or Brush application
For airless spray application ;
Nozzle orifice : 483 ㎛ ~ 787 ㎛ (0.019″ ~ 0.031″)
Output pressure : 11.7 MPa ~ 15.2 MPa
Fan : 60 º
(Airless spray data are indicative and subject to adjustment)

Typical Film Thickness
100 ~ 200 ㎛ dry.
May be specified in another film thickness than indicated depending on purpose and area of use.

Recoating Interval
At 20 ℃/ 68 ℉, 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 ℃/200 ℉ (Non-immersion service)
Non-continuous : 121 ℃/250 ℉ (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 ℃/41 ℉ or above 40 ℃/104 ℉.
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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