



Korepox H.S. EH4158 (Two-Component)

Product Description	A two-component, high solids, high build, polyamine cured epoxy resin based self priming coating with excellent resistance to sea water. It can be applied over new or old steel, requiring only the removal of loose rust and scale, and applied over most existing coatings. Also, it is suitable for immersion service in sea water over abrasive blasted surfaces. Approved as non-contamination paint for grain cargoes by Industrial Health Limited. It complies with FDA regulation, Section 175.300.
Recommended Use	As a primer or middle coating for areas requiring coatings of exceptional abrasion resistance, corrosion resistance, and durability such as bottom and cargo hold of a ship, fences, piping, highway bridges and structural steel.

Physical Properties

Finish and Color Flat. Grey (1128), Red Brown (2260), Silver

Drying Time	Substrate temperature	5 °C/41 °F	20 °C/68 °F	30 °C/86 °F
	Set to touch	8 h	3 h	2 h
	Dry through	24 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. 83 % (Determined by ISO 3233)

Theoretical Spreading Rate 6.64 m²/L in 125 μm dry film thickness on a smooth surface.

Specific Gravity Approx. 1.40 for Mixture of Base and Curing agent.

Flash Point
Base (EH4158 PTA) : 25 °C/77 °F (Closed cup)
Curing Agent (EH4158 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 to St3, 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 °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 3 h at 20 °C/68 °F

Preceding Coat Korepox Holding Primer EP170QD, Korepox Holding Primer EP1700, Galvany Shopprimer IZ182, or according to specification.

Thinning Thinner No. 024, 002 or Other thinner approved by KCC
For repairs with loose paint film such as alkyd, use Thinner No. 002.
Do not dilute each 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 : 483 mm ~ 635 μm (0.019" ~ 0.025") Output pressure : 11.7 MPa ~ 15.2 MPa Fan : 60° (Airless spray data are indicative and subject to adjustment)
Typical Film Thickness	100 ~ 200 μm dry. Depending on the purpose and the area of use, different film thickness may be applied.
Recoating Interval	At 20 °C/68 °F, Minimum : 4 h Maximum ; - Immersion : 6 d - Non-immersion : 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 H.S. EH4158, 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	Good	Excellent	Excellent
	Fumes	Good	Good	Good	Excellent	Excellent
	Immersion	Fair	Fair	Fair	Excellent	Excellent

Standard Packing Unit 16 L (EH4158 PTA : 8 L, EH4158 PTB : 8 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 August 2009, Rev.04