



Technical Data Sheet

Korepox H.B. EH3000 (Two-Component)

Product Description	A two-component ambient cure solvent free epoxy coating. A self-priming, anti-corrosive coating with an excellent resistance to seawater, crude oil, fuel oil and abrasion.
Recommended Use	As an anti-corrosion and anti-abrasion coating for a long-life protection of steel structures in severely corrosive environment such as Water ballast tank, Underwater hull outside, Cargo holds and any exposed parts of ship. As a tank coating for ship's crude oil tanks, fuel oil tanks and interior of pipe lines which transfers crude oils, etc.

Physical Properties

Finish and Color	Gloss. L/grey, Cream, Red oxide	
Solids by Volume	Approx. 100 % (Determined by ISO 3233)	
Specific Gravity	Approx. 1.35 (Mixture of Base and Curing agent)	
Flash Point	Base (EH3000-A)	: >101°C / 213°F (Closed cup)
	Curing Agent (EH3000-B)	: >101°C / 213°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. <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.
Application Condition	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. Temperature during application and curing is preferable from 5°C / 41°F to 49°C / 120°F. This temperature condition is for the substrate and surrounding air.
Mixing	EH3000-A (Part A, Base) : EH3000-B (Part B, Curing agent) = 3 : 1 (by volume) <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. Continuous stirring until mixture is free of lumps

Technical Data Sheet

Korepox H.B. EH3000 (Two-Component)

Application

Spray : Airless or Air spray
 Brush and Roller : Recommended for small area and stripe coating for specified edges, welds, hard to reach areas, etc.

For airless spray application ;
 Nozzle orifice : 482 μm ~ 635 μm (0.019" ~ 0.025")
 Fan : 40° ~ 60°
 Output pressure : 11.7 MPa ~ 15.2 MPa
 Airless Pump Ratio : 45 : 1 ~ 73 : 1
 (Airless spray data are indicative and subject to adjustment)

Recommended Coating System

- For Water Ballast Tanks
 - 1st Coat: Korepox H.B. EH3000 (Red oxide, 160 μm DFT / 160 μm WFT)
 - 2nd Coat: Korepox H.B. EH3000 (L/grey, 160 μm DFT / 160 μm WFT)

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

Thinning Not recommended

Typical Film Thickness

(Per Coat)	Typical	Minimum	Maximum
Dry Film Thickness (μm)	160	100	200
Wet Film Thickness (μm)	160	100	200
Theoretical Spreading Rate (m^2/L)	6.25	10.67	*

Drying Time & Recoating Interval

	5°C / 41°F	10°C / 50°F	20°C / 68°F	30°C / 86°F
Substrate temperature				
Dry to touch	15h	8h	3h	2h
Dry to walk on	30h	20h	12h	9h
Dry to hard	36h	24h	15h	12h
Dry to recoat (Full / Min.)	30h	20h	12h	9h
Dry to recoat (T/up / Min.)	36h	24h	15h	12h
Dry to recoat (Max.)	20d	15d	15d	15d
Dry to immersion (Full)	20d	14d	7d	5d
Dry to immersion (T/up)	16d	12d	5d	3d

* 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.

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.

Technical Data Korepox H.B. EH3000 (Two-Component)

Ventilation	Adequate ventilation with a clean air should be maintained during application and curing.
Cleaner	Thinner No. 024 or Tool cleaner 009
Pot Life	45 minutes at 20°C / 68°F Pot life may be shorter under higher temperature and humid conditions.
Preceding Coat	According to specification.
Shelf Life	12 months
Standard Packing Unit	16 L (EH3000-A : 12 L, EH3000-B : 4 L)
Safety Precautions	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.
Manufacture	KCC Corporation 1234, Bangeo-dong, Dong-gu, Ulsan, Korea
Issued	July 2011.

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.