Korepolar EH3090 is a high solids, two-component, epoxy resin based coating, designed for ice-going vessel. Excellent impact resistance, abrasion resistance. Also, it provides a hard and tough film with long term durability and meets VOC regulation.

Recommended use	As a coating for corrosion protection of ice-going vessels including ice breakers. (EH3090's abrasion and impact resistance makes it an excellent coating for the ice-belt of vessels in arctic waters.)

Physical Properties

Finish and Color	Gloss. Black, Red
Specific gravity	Approx. 1.4 ~ 1.6 for Mixture of Base and Curing agent.
Solids by volume	Approx. 98% (Determined by ISO 3233)
Spreading rate (Theoretical)	1.96㎡/L in 500㎛ dry film thickness on a smooth surface
Flash point	Base (EH3090-A) : 3 2 ℃ / 90°F (Closed cup) Curing Agent (EH3090-B) : 6 5 ℃ / 149°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. * Blast cleaning to minimum Sa2.5 (ISO 8501 1:1988), blasting profile (Rz) 30~ 70㎛.
Method of application	Hot twin feed Airless Spray, Brush application. For airless spray application ; Pump ratio : Min. 66:1 Nozzle orifice : 482.6㎛ ~ 787.4㎛ (0.019" ~ 0.031") Output pressure : 26.4Mpa ~ 46.8Mpa Fan : 40° ~ 65 ° (Airless spray data are indicative and subject to adjustment)
Mixing	Base (EH3090-A) : Curing Agent (EH3090-B) = 2 : 1 (by volume) Mix thoroughly together prior to application in the proportions with power agitator as delivered.
Thinning	Thinner No.024 or Other thinner approved by KCC up to 3%. (If necessary) But Thinning will destroy the abrasion resistance properties of the coating Do not dilute each components separately
Application conditions	The surface must be completely cleaned and dried. * Apply by hot twin airless spray only. Prior to application, bring both components and the mixed paint to between 45℃~50℃ by recirculation and the use of insulated lines. * Use only where application and curing can proceed at temperature above 10℃/50°F and at relative humidity below 85%.

	* The surface temperature must be at least 2.7℃ (5°F) above dew point to prevent condensation. * Storage must be between 20~30℃(68~86°F) to ensure suitable application viscosity. * Paint application should be carried out the ambient and surface temperature conditions of over 5℃/41°F. After application the curing temperature must be at least above 5℃/41°F to avoid film defects due to slow drying. * Keep the temperature specified for application and curing.
Film thickness	Recommended 500 ㎛ dry. Depending on the purpose and the area of use, different film thickness may be applied.
Drying time	<table><tr><td>Substrate temperature</td><td>10℃/50°F</td><td>20 ℃/68 °F</td><td>30 ℃/86 °F</td></tr><tr><td>Set to touch</td><td>8 h</td><td>3 h</td><td>2 h</td></tr><tr><td>Dry through</td><td>36 h</td><td>15 h</td><td>8 h</td></tr></table> The actual drying time is subject to the film thickness, ventilation, humidity etc., and drying time under other temperature conditions must be checked and informed from us
Subsequent Coat	According to specification.
Recoating interval	<table><tr><td>Dry to recoat</td><td>10℃/50°F</td><td>20 ℃/68 °F</td><td>30 ℃/86 °F</td></tr><tr><td>Minimum</td><td>8 h</td><td>3 h</td><td>2 h</td></tr><tr><td>Maximum</td><td>10 d</td><td>7 d</td><td>4 d</td></tr></table> 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.

Storage and package

Shelf life	12 months
Packing Unit	22.5 L (EH3090-A : 15L , EH3090-B : 7.5 L)

Remarks

Note	Do not store at temperature below 5℃/41°F or above 40℃/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.
1'st issue	2011-07-01
Revision	2016-11-01