

1. OVERVIEW

KOREPOTAR EH173 is a polyamide cured coal-tar epoxy resin based high-build coating which provides with very hard wearing and highly resistance to seawater.

Not resistant to aromatic solvents such as benzene and xylene. White spirits, petrol(gasoline) and other aliphatic solvents may cause discoloration, but it has no negative influence on the system.

Approved as a CORROSION CONTROL COATING(CORROSION RESISTANCE PAINT) for water ballast tanks and FIRE RETARDANT COATING from LLOYD'S REGISTER OF SHIPPING (L.R) and KOREAN REGISTER OF SHIPPING (K.R). Approved as a NON-CONTAMINATION PAINT for grain cargoes from NEWCASTLE OCCUPATIONAL HEALTH.

Acquired Wheel Mark from DNV as surface materials and floor coverings with low flame- spread characteristics.

- a. Recommended Use : For long-life protection of steel and other structural materials in severely corrosive environment e.g. on permanently submerged surfaces such as ship's bottoms, ballast tank, hold, drilling rigs, sheet piling, crude oil tanks, tidal and splash zones, and similar areas.

2. PHYSICAL PROPERTIES

- a. Finish and Color : Flat. Black, Brown
- b. Drying Time : At 20°C/68°F, Set to touch : 2 hours
Dry hard : 24 hours
Fully cured : Approx. 7 days
- c. Solids by volume : Approx. 73% (Determined by ASTM D 2697).
- d. Spreading Rate : 5.84 m² /L in 125 microns dry film thickness on a smooth surface.
(Theoretical)
- e. Specific Gravity : Mixed : Approx. 1.4 (Kg/L)
- f. Flash Point : Base(EH173PTA) : 25°C/77°F(Closed cup)
Curing Agent(EH173PTB): 25°C/77°F(Closed cup)

3. APPLICATION DETAILS

- a. Surface Preparation : New steel : Blast cleaning to Sa 2'' 'Near White Metal', followed by suitable shopprimer for preliminary protection, if required.

	Immersion	Non-Immersion
Steel	Sa 2½	Sa 2

- b. Application Condition : Use only where application and curing proceed at temperature above 5°C/41°F. In case when drying time is delayed in the winter season,

※ This data is believed to be accurate, but without any obligation.

Please consult with our technical department for detail information..

Fumes	Excel- lent	Excel- lent	Very Good	Excel- lent	Excel- lent
Immersion	Good	Very Good	Fair	Excel- lent	Excel- lent

m. Packing Unit : 16L (Base : 12.8L, Curing Agent : 3.2L) or
18L (Base : 14.4L, Curing Agent : 3.6L)

n. Remarks : Protect skin and eyes, and avoid prolonged breathing of solvent vapors.
Use with adequate ventilation.
Respiratory protection is recommended when applying this material in confined spaces or stagnant air.

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EH173(S) is recommended which is possible to cure at the low temperature. The surface must be clean and dry and its temperature must be more than 2.7°C above dew point to avoid condensation.

- c. Mixing : Base : Curing Agent = 4 : 1 (by volume).
Mix thoroughly together half an hour prior to application in the proportions as delivered.
- d. Pot Life : At 20°C/68°F, 6 hours.
- e. Thinning : THINNER No. 024 (Thinning ratio : 10%, by volume)
Thinning ratio is different by application condition and dry film thickness.
No substitutes. Do not dilute the components separately, only the mixture.
- f. Method of Application : Brush or Spray (air or airless) application.
For airless application;
Nozzle orifice : 0.021" ~ 0.026"
Output pressure : 2,500 ~ 3,000 psi / 170 ~ 204 atm
Fan : 65°
(Airless spray data are indicative and subject to adjustment).
Clean tools thoroughly before and immediately after use with KOREPOX TOOL CLEANER 009 or THINNER No. 024.
- g. Film Thickness : Recommended per coat 100 ~ 250 microns dry.
- h. Recoating Interval :

D.F.T (μ)	125	200	125	200	125	200	125	200
Minimum	24H	36H	12H	24H	6H	12H	4H	8H
Maximum	7D	7D	5D	5D	5D	5D	5D	5D

* Note : H -> hours, D -> days

The best time for recoating and overcoating is when the paint film is still slightly tacky.

This curing stage is reached after 6 hours at 20°C/68°F under good ventilation.

If maximum interval is exceeded, roughening of the surface is necessary to ensure intercoat adhesion.

- i. Subsequent Coat : KOVINYL SEALER VH137AL, KOREVITAR H.B EH2540, KORABOR ALUMINUM RH248 or as per specification depending on area of use.

The bleeding may occur into subsequent coat, but its effect is only cosmetic and has no negative influence on the anti-corrosive properties of the system.

- j. Shelf Life : 12 months
- k. Heat Resistance : Continuous : 93°C/200°F(Non-immersion service)
Non-Continuous : 121°C/250°F()

- l. Chemical Resistance :

	Acids	Alkalies	Solvents	Seawater	Fresh Water
Splash & Spillage	Excel- lent	Excel- lent	Good	Excel- lent	Excel- lent

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