

KARDEN GRAINSAFE

PRODUCT CODE: KBK 020215
GRAIN - CARGO TANK COATING

**1. DESCRIPTION OF PRODUCT AND THE PRODUCER**

GENERIC TYPE	Epoxy polyamine coating
DESCRIPTION, AREAS OF USE	Two pack, high build pure epoxy - polyamine coating for cargo holds of bulk carriers. Excellent self priming, abrasion and corrosion resistance are key features. Could be used as a primer and intermediate coat for different vessel surfaces including cargo tanks, decks and superstructure.
PRODUCER INFORMATION	Kartallar Boya ve Kimya Sanayi Ticaret Limited Sirketi Kosklucesme Mahallesi, Yeni Bagdat Caddesi, No:136, 41400 Gebze / KOCAELI / TURKIYE
PRODUCT HOTLINE	Monday-Saturday (08:30 - 18:00) Tel: 0262 641 49 67 Fax : 0262 641 49 68
EMERGENCY LINE	Uludag University Poison Research Center (7/24) - +90 224 442 82 93

2. PRODUCT'S TECHNICAL & APPLICATION PARAMETERS

COLOUR(S) / TEXTURE	Grey, Oxide Red
APPEARANCE	Egshell (ASTM D 523)
SPECIFIC GRAVITY	1.50±0.05 g/cm ³ (ASTM D 1475)
SOLID BY VOLUME	%80±1 (ASTM D 2697)
THINNER CODE	K- Solv 1200
THINNING RATE	%6-8
VOC CONTENT	224 g/L (ASTM D 3960) (when thinned %8 with K-Solv 1200)
SPREADING RATE	8 sqm per liter when applied as single coat (100 microns DFT)
SURFACE DRY TIME	3 hours @20 °C
THROUGH DRY	24 hours @20 °C
COMPLETELY CURED	7 days @20 °C
HARDENER TYPE - COMP. MIXING RATIO	K-Cure 20000 , 3:1 on Volume
METHOD OF APPLICATION	Airless Spray, HVLP Spray, lint free roller, brush
NOZZLE INFO	0.017" - 0.023"
PRESSURE INFO	200-220 bars
RECOMMENDED WET THICKNESS	130 microns
DRY FILM THICKNESS	104 microns
MINIMUM RECOATING INTERVAL	6 hours @20 °C for same material
MAXIMUM RECOATING INTERVAL	180 days @20 °C for same material
MAXIMUM RECOATING INTERVAL(IMMERSION)	30 days @20 °C for same material
POT LIFE	2 hours @20 °C
SHELF LIFE	2 years for Component A and 2 years for Component B from the date of manufacture, as long as stored at proper conditions and unopened

3. SURFACE PREPARATION & ENVIRONMENTAL CONDITIONS DURING APPLICATION

NEW APPLICATION	Oil and grease should be removed by solvent cleaning according to SSPC-SPI. Steel surfaces should be abrasive blasted to Sa2 ^{1/2} as per ISO 8501-1:2007) If a suitable temporary protecting primer was applied, loose debris and any type of contamination should be cleaned thoroughly prior to the final application.
REPAIRS	Corroded areas should be blast cleaned to Sa2 ^{1/2} or SSPC SPI0. Existing systems should be dry and free from loose paint, salt, grease and other contaminants prior to the overcoating.
SURFACE SALT LIMITS	35µg/sqm

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KARTALLAR BOYA KIMYA
"Koruyucu Estetik"

KARTALLAR BOYA VE KIMYA SANAYI TICARET LIMITED SIRKETI

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**3. SURFACE PREPARATION & ENVIRONMENTAL CONDITIONS DURING APPLICATION (CONTINUED)****ENVIRONMENT CONDITIONS**

The temperature of the surface should be at least 3°C higher than the DewPoint of the air. Temperature and relative humidity should be measured in the vicinity of the substrate. The maximum recommended surface temperature is 40°C. In extreme cases, it may be necessary to reduce film thickness in order to avoid sagging. When applying the paint in confined spaces, provide adequate ventilation during application and drying. The temperature of the mixed paint should be at least 10°C. Otherwise extra solvent may be needed to obtain a proper application viscosity. Relative humidity must not be over %80. Should only be applied on completely dry surfaces where the ambient temperature is at least 10°C.

4. PACKING & STORAGE CONDITIONS**PACKING DETAILS**

15L Component A + 5L Component B in steel pails

STORAGE CONDITIONS

Storing areas should be dry and well ventilated where the temperature is always between 5-30°C. These areas should be separated from the manufacturing fields to eliminate the risks of fire.

5. ENVIRONMENTAL RESPONSIBILITY, HEALTH & SAFETY**GENERAL RULES**

Observe the precautionary notices on the label of the container. A material safety data sheet is available upon request and national or local safety regulations should be followed. This product is intended for use by professional applicators.

HEALTH

Avoid skin- and eye contact by wearing overalls, gloves, goggles, mask, etc. Spillage on the skin should immediately be removed by thorough washing with lukewarm water and soap or a suitable industrial cleaner. Eyes should be flushed with fresh water and medical attention sought immediately. Spraying should be carried out under well-ventilated conditions. Avoid inhalation of solvent vapors and paint mist by wearing an air mask.

SAFETY

This product contains flammable materials and should be kept away from sparks and open flames. Smoking in the area should not be permitted.

6. DISCLAIMER**DISCLAIMER**

The information in this data sheet is provided to the best of our knowledge. However, we have no control over either quality or condition of the substrate and other factors affecting the use and application of this product. Therefore, we cannot accept any liability whatsoever or howsoever arising from the performance of the product or for any loss or damage arising from the use of this product. We reserve the right to change the product without notice.

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