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Case Study: 0001-08

Carisbrooke Shipping Limited

Location: United Kingdom

Industry: Maritime

Product: KLEEN KOTE



Background:

Carisbrooke Shipping depended on laborious methods of cleaning the cargo hold of vessels when carrying cement powder and pet coke throughout the world. Each ship had been previously cleaned by scraping and washing of the cargo hold. After researching various cleaning products in the market, Carisbrooke Shipping came across KLEEN KOTE and put it to the test.

Use:

KLEEN KOTE was used as a trial by cleaning the hold and applying KLEEN KOTE prior to loading the cement powder or pet coke. Upon discharge of the cargo at destination, the ship's cargo hold underwent the cleaning to prepare for the next shipment. KLEEN KOTE created a protective barrier that allowed Carisbrooke to power wash off any remaining residue that could create contamination and potential staining and/or damage to the hold. Carisbrooke employees were amazed at how well they were able to reduce the amount of time spent and the reduction of potential damage to the hold itself, even on the very first trial!

Results:

- **Reduced Labor Time** – Less time and man hours to clean and prep the hold
- **Reduced Environmental and Safety Hazards** – There are no silicones, solvents or phosphates and is water-based; it is safe for use on all surfaces of the vessel
- **Increased Life of the Cargo Hold** – Protects the hold from staining, stickage or corrosion caused by various cargoes; reduces the need for repeated repainting of the cargo hold
- **Economical** – Ships in concentrate form to mix on an as-needed basis and takes up less space onboard and reduces transportation/delivery costs.
- **Durable Protector of Cargo Hold and Deck** – pProtects the hold and deck from potential threats of atmospheric/weather changes, various cargoes and environmental debris.

Carisbrooke is now able to increase their acceptance of various cargoes for shipment due to their ability to reduce the time and man hours it previously took to clean and prep the hold.

Carisbrooke Shipping was able to pick up the concentrate from various ports throughout the U.S. and distribute it amongst their ships and is currently storing KLEEN KOTE on each of their ships throughout the world.

Carisbrooke Shipping is also implementing the use of KLEEN KOTE on the decks of the ships to protect against the potential threats of the environment, debris and damage caused during loading and unloading of cargo, and to protect the controls and equipment of the ship.



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Carisbrooke Shipping

MEMORANDUM

DATE : 17th October 2007
TITLE : 'Kleen Kote' – Use and Application
TO: All Masters & Superintendents
FROM: Technical Department
APPROVAL : DPA *SR Smith*

Following successful trials on some ships in our fleet, we have decided to supply 'Kleen Kote' to all ships. This product has proved very beneficial in protecting surfaces in cargo holds, decks and equipment on those ships unfortunate enough to carry cement or pet coke cargoes.

As can be seen from the enclosed documentation, 'Kleen Kote' is a water-based industrial release that will prevent cement and pet coke sticking to treated surfaces. When used correctly 'Kleen Kote' deposits a very thin film causing the surface to become virtually non-stick. This product is reported environmentally safe and does not contain any solvents or phosphates.

Instructions for Using "KLEEN KOTE" on Cargo Ships when carrying Cement & Pet Coke:

1. Remove previously applied release agents and soaps from the cargo hold, decks & equipment before applying 'Kleen Kote' to these surfaces.
2. Mix 'Kleet Kote' concentrate with water at 11 parts water to 1 part 'Kleen Kote' concentrate. For pet coke it may be necessary to use mixtures of 8 to 1, 9 to 1 or 10 to 1 depending on how effective the mixture is. (The Master should decide on ratio of water / concentrate, keeping in mind that the higher ratio, e.g. 11-1 water / concentrate, is more cost effective).
3. Spray 'Kleen Kote' over all surfaces that will come in contact with cement / pet coke BEFORE every load. Starting by applying 'Kleen Kote' from the top of the hold working your way down to the bottom. Before loading the ship you must let the 'Kleen Kote' turn from white to clear after it has been sprayed on the surfaces to be protected.
4. Do not switch between release agent products when spraying a ship. Sometimes different products don't work well with each other.

Notes:

- Kleen Kote' may be applied to a damp surface.
- When cleaning the cargo hold or deck after carrying cement or pet coke, use an appropriate detergent and power washer to remove the cement / pet coke and 'Kleen Kote'.
- Start cleaning the hold of the ship from the top of the hold down, this way the bottom of hold will be protected from the pet coke staining it.

Enclosed with this memo are 'Kleen Kote' General Information and Material Safety Data Sheet.

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