

Abrasion Resistant Cargo Hold Coating

# UMEGUARD SUPER-H

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**CMP CHUGOKU**

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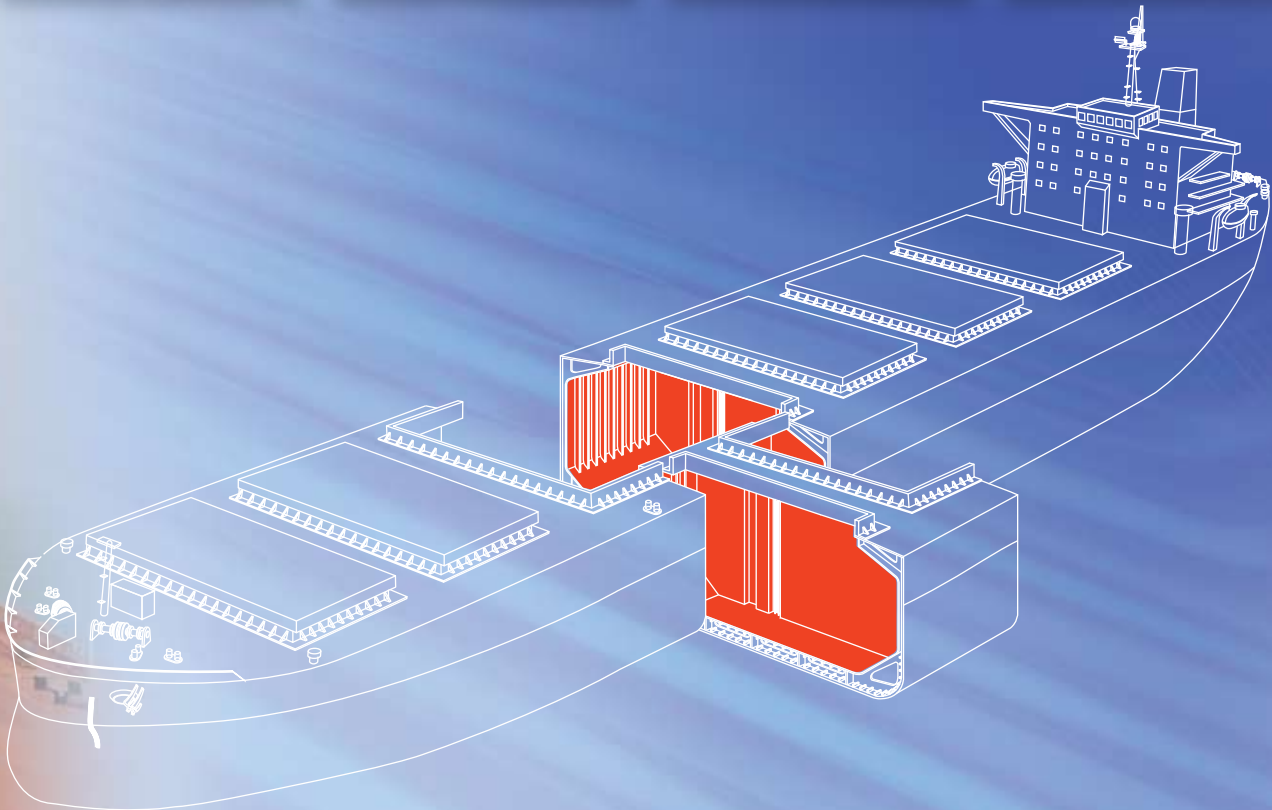
“UMEGUARD®” series, high performance epoxy coating, is widely accepted in the marine industry since 1990’ s. Meanwhile, UMEGUARD SUPER-H was developed to be dedicated for cargo hold enhancing its film hardness and anti-corrosive property. Since its debut in 1990’ s, it has been applied to more than 100 vessels gaining a high reputation from the market, extending the life cycle of the coating and enabling users to minimize the total maintenance cost of cargo hold.

UMEGUARD SUPER-H will protect your cargo holds with its high level of hardness.





Result in a year (Coal)



## In-Service Performance



## Features

Outstanding impact & abrasion resistance

Excellent anti-corrosive performance against sea/fresh water, chemicals, heat and high humidity

Hard coating with robustness and crack resistance

Quick dry curing and low VOC

## UMEGUARD® Series

	VS	Pencil Hardness	Remarks
<b>UMEGUARD SUPER-H</b>	75%	Up to 4H	Dedicated for cargo holds
<b>(BANNOH 1500)</b>	73%	2H	Applied on all areas for newbuilding and M&R*
<b>UMEGUARD SX HS</b>	77%	H	Applied on hull and cargo holds for M&R*
<b>UMEGUARD SX</b>	57%	HB	Applied on general areas and cargo holds for M&R*

\*M&R: maintenance and repair

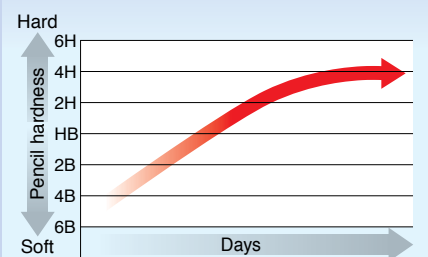
## FDA approval\*

All our cargo hold coatings have an approval for foodstuffs. The product also meets the requirements outlined in the Code of Federal Regulation (CFR) of the FDA



## Pencil Hardness Test

(ISO 15184)



\*FDA (Food and Drug Administration, Department of U.S. Health and Human Services)

Cape size 4



After application (Y2007)



7 years later  
Good condition  
(no application on Tanktop )

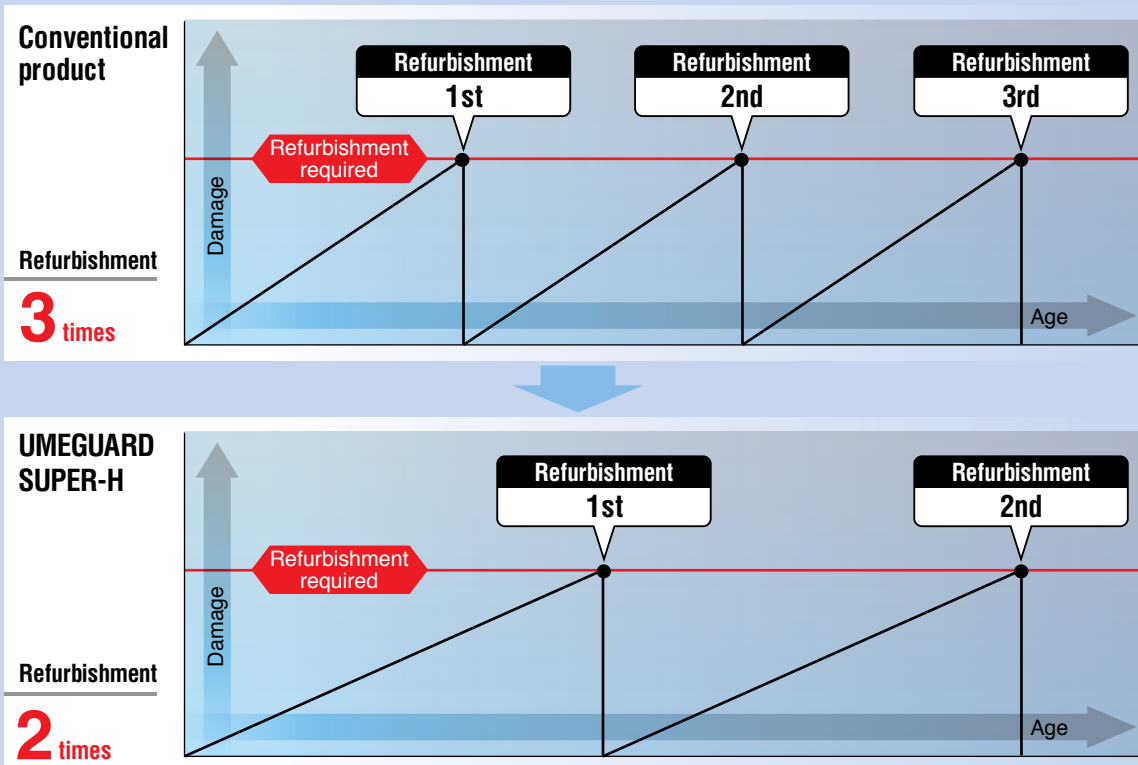


### Minimize total maintenance cost

UMEGUARD SUPER-H, with excellent abrasion resistant and anti-corrosive property, reduces daily damages caused by loading and discharging of various types of cargoes. As a result, it enables vessels' owners to reduce the amount of repair works and frequency of cargo holds' major refurbishment that in turn will provide them with longer systems' lifetime and savings in both maintenance costs and man-hours.

### Extend the lifetime

A number of refurbishments can be reduced by UMEGUARD SUPER-H.



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