

"Plus technology" provides excellent fuel saving performance

Silicone foul release coating

**CMP BIOCLEAN
PLUS**

CMP CHUGOKU

CMP BIOCLEAN PLUS

"Plus technology" provides excellent fuel saving performance

Advanced silicone elastomer coating

Excellent anti-slime performance

CMP BIOCLEAN PLUS is the advanced silicone elastomer foul release coating with "Plus technology".

Long term antifouling performance

Improved anti-slime and foul release performance using "PLUS Technology"

Superior Fuel Saving

Fuel saving with ultra smooth surface which is conducted by rheology control technology and improved foul release performance.
Expected average speed loss 0.9% for 60 months.

Stable paint film property

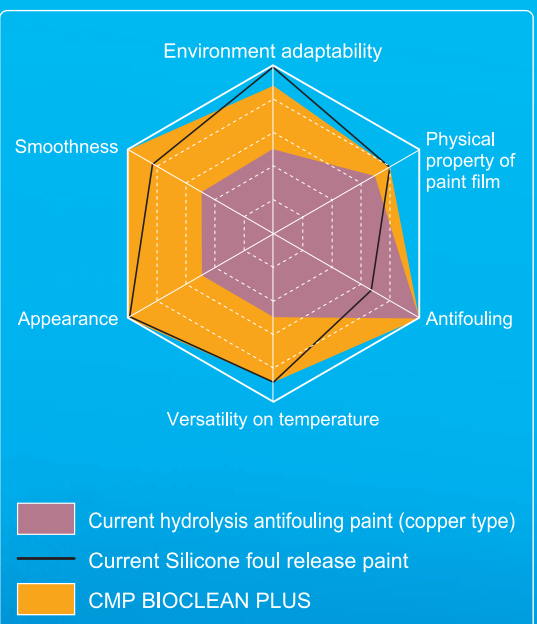
Based on stability of silicone paint film, it has stable appearance and adaptable to any sea area.

Less impact on environment

Reduce hydrocarbon level during paint application

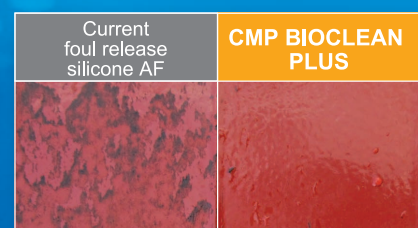
Good workability

Easy application under wide range of painting condition (0 degrees up to 40 degrees)

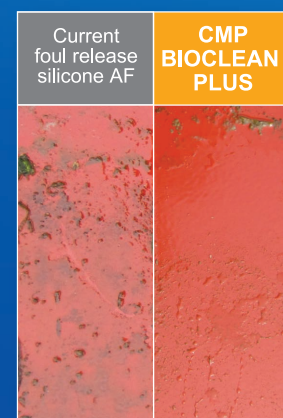


Dynamic monitoring for 28 months

15knots/85%activity



Static performance after 12 months



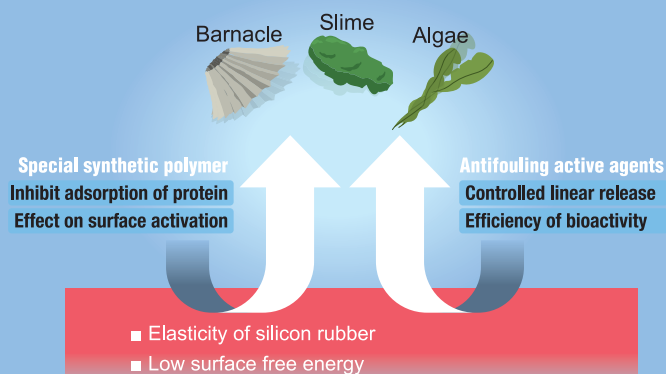
ISUZUGAWA VLCC 299,984DWT



CMP BIOCLEAR PLUS has adopted a new technique “PLUS Technology”.

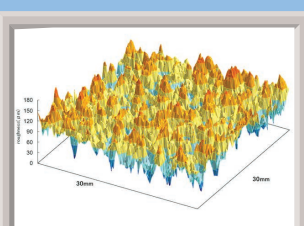
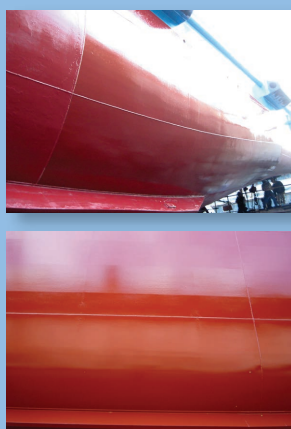
Silicone elastomer with special synthesis polymer which has an inhibition of protein absorption and an effect of surface activation, creates optimized paint film which is anti-slime and easy foul release.

In addition, ultimate antifouling performance is brought out with small amount of active agent.



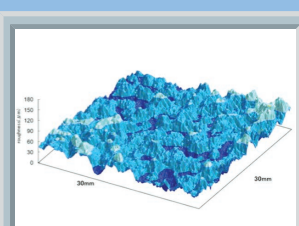
Efficiency of fuel saving by optimization of film surface

CMP BIOCLEAR PLUS can contribute to fuel savings with “smoothness from origin of silicone” and “PLUS Technology” which leads long term antifouling and foul release performance.



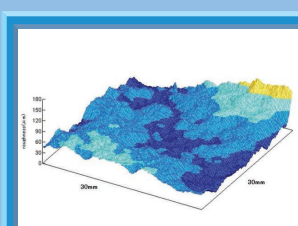
Current hydrolysis
antifouling paint

FIR : 10.7%



Latest smooth
surface hydrolysis
antifouling paint

FIR : 1.2%



**CMP BIOCLEAR
PLUS**

FIR : 1.0%

FIR Friction Increase Ratio
THEORY (Patent pending)

CMP has established FIR theory which can estimate the friction resistance by measuring and evaluating roughness (Rc) and wavelength (RSm) of the paint surface, and have been carrying out evaluation of fuel saving effect with more accuracy.

Lower FIR
= lower friction rate = **Higher Fuel Savings**

Application



*Ultra smooth antifouling paint is highly recommended for bottom area.

*CMP BIOCLEAR R is applicable for rudder and propeller.

Silicone foul release coating

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CHUGOKU MARINE PAINTS, LTD.

www.cmp-chugoku.com

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