

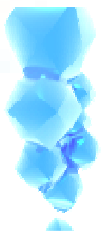
Pollution-free! Anti-fouling Ship bottom Paints & Coatings

Gaia Clean

Balan Guard

Debut!

*A*nti *F*ouling



*A*nti *C*orrosion

Eco-friendly!

**No barnacle and weed
attach for a long term!**

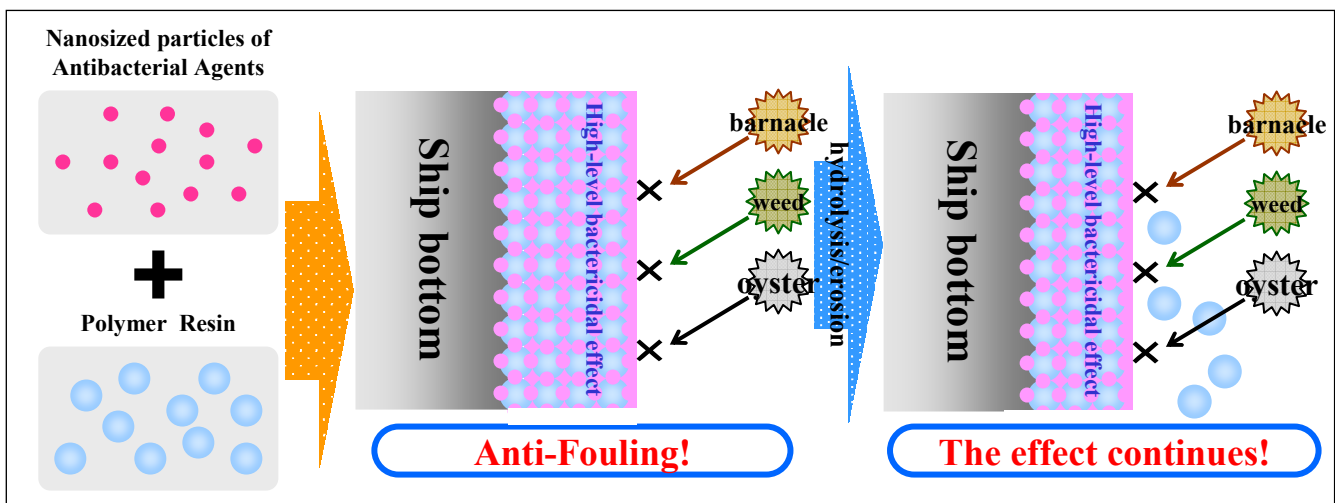
**Long-awaited paints and coatings
of the 21st century!**

S *p* *e* *e* *d* *U* *p*

COSMOS TECHNOLOGY
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Gaia Clean Silicon Polymer Self-Polishing Bottom Paints

Gaia Clean is the hydrolyzable paints that are called “Self-Polishing”. The hydrolysis/erosion process brings the exposure of a fresh surface of “Antibacterial agents manufactured on a **nanoscale**” constantly. So, it is effective even for the one that doesn't sail like a buoy and a pontoon, etc. The effect continues for about **1.5 - 2 years or more**.



Please compare it with a surrounding part.

○ Part where Gaia Clean was painted



Test piece that painted Gaia Clean Please compare it with these test pieces not painted.

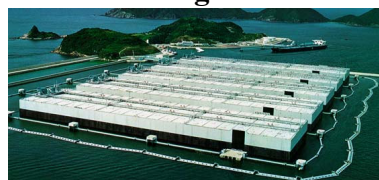
Features

1. It is the paint that discourage marine life from attaching.
2. It is effective even for the one that doesn't sail.
3. It is eco-friendly because it doesn't contain the toxic substance.
4. It is possible to paint on a surface coated by conventional paints.
5. The maintenance cost can be reduced.

Recommended for

Buoy Pontoon Intake screen
The underwater surface of oil storage etc.

Oil storage of sea



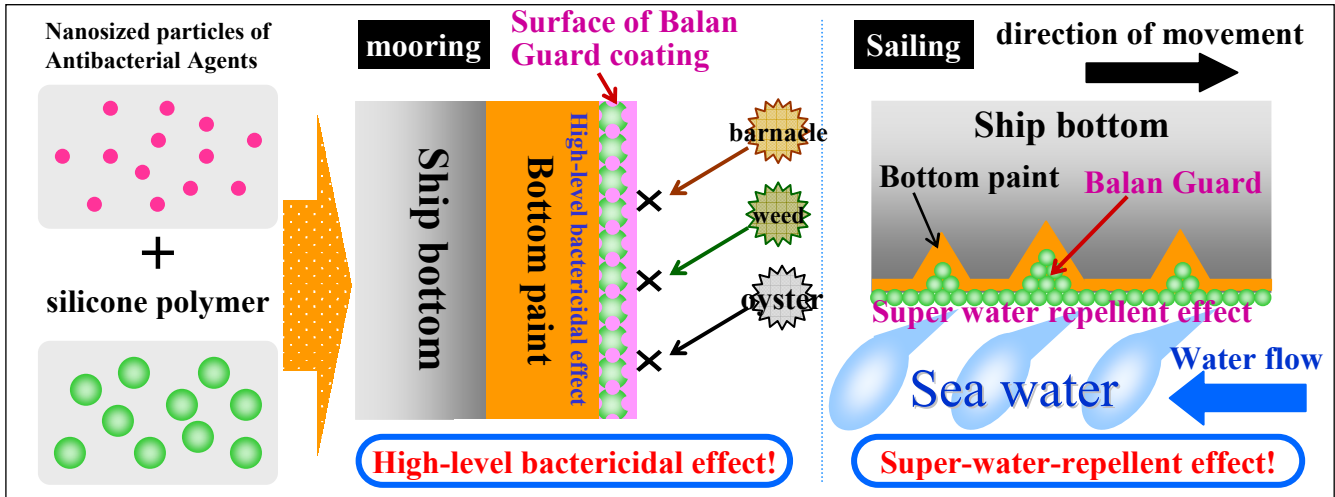
Intake screen



Balan Guard

Super-water-repellent Silicone Clear Coatings

This product uses special silicone to provide a “Super-water-repellent effect”, and uses “Antibacterial agents manufactured on a **nanoscale**” to provide a “High-level bactericidal effect”. Slime may attach but it is automatically removed when you are motoring or sailing. The effect continues for about **3 years**.

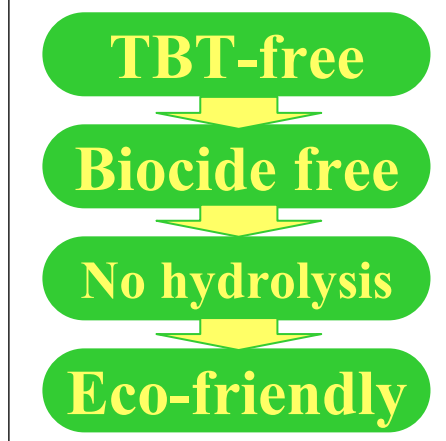


Features

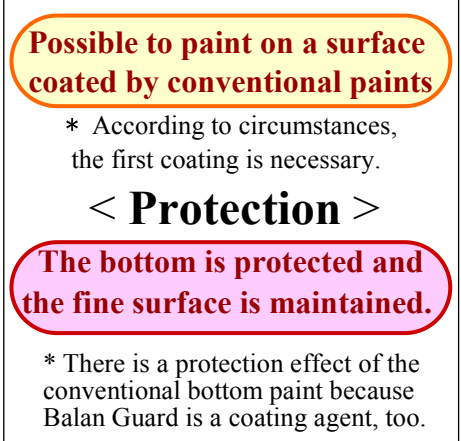
< Economy >



< Environment >



< Work >



Recommended for

Pleasure boat
Sailboat
Yacht for racing
High-speed boat
Vessel
Water intake opening
Intake channel



Simulation of fuel cost

Experimental ship: FRP 30-foot diesel engine (150 hp × 2)

	First speed (speed over the ground)	Speed after 10months (speed over the ground)	Fuel cost of average during year (*1)	Fuel use during year (*2)	Fuel cost during year (*3)
Conventional bottom paints	26 knots/h 3,000pps/m	13 knots/h 2,600pps/m	65 liters/h	117 kl	Y8,892,000
Gaia Clean Balan Guard		25 knots/h 3,000pps/m	45 liters/h	81 kl	Y6,156,000
Effect of Gaia Clean & Balan Guard		x 1.9	30% reduction	2 million 736 thousand yen reduction	

*1 by authorized guidebook

*2 as the ship navigated for six hours a day for 300 days a year

*3 as 76 yen/l (duty free diesel oil)

About Balan Gurd

1. Please examine it by the standard of your company because it is a prototype for "Balan Guard".
2. Various safety data has been confirmed.

To use it safely

Please observe all warnings and cautions described in the container or the instruction manual, when you handle the product. Especially, please read the warning sentence when there are an inflammability and a hazardous property. Please refer to Material Safety Data Sheet (MSDS) when a detailed content is necessary.

< NOTICE >

The product described in this pamphlet might change the specification and handling without a previous notice.

Cosmos Technology, Ltd.



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