

Ultra low friction, silyl methacrylate hydrolysis antifouling

# SEAFLO NEO SLM



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CMP has been providing new products and solutions for shipowners, ship management and charterers who try to minimise carbon emissions. CMP's silyl methacrylate antifouling has satisfactory results on thousands of ships for the last 10 years. Introducing SEAFLO NEO SLM with the latest technology, it gets new reliable outcome for excellent antifouling performance on hull of all types of ships.

## Features

90-month service life by TIPSMA based silyl antifouling technology

Minimising hull resistance by Ultra-low friction technology

Expected maximum average speed loss 1.5% for 60 months

Excellent static performance up to 30 days single idle period

## TIPSMA based silyl technology

Thin leached layer achieved from TIPSMA (tri-isopropyl silyl methacrylate) based silyl technology provides stable and linear polishing of antifouling surface.

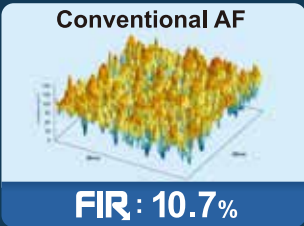
	Conventional Silyl (TIPSA)	SEAFLO NEO SLM (TIPSMA)	
<b>Chemical Structure</b>	$  \begin{array}{c}  \text{O}=\text{C} \quad \text{H} \\    \\  \text{O}^- \text{Na}^+ \\    \\  \text{R}_1-\text{Si}-\text{R}_2 \\    \\  \text{R}_3  \end{array}  $	$  \begin{array}{c}  \text{O}=\text{C} \quad \text{CH}_3 \\    \\  \text{O}^- \text{Na}^+ \\    \\  \text{R}_1-\text{Si}-\text{R}_2 \\    \\  \text{R}_3  \end{array}  $	Methyl group controls the hydrolysis reaction in a stable manner to keep leached layer thin.
<b>Thickness of leached layer</b>	<p>31µm</p>	<p>10µm</p>	The thin leached layer is steadily renewed and provides excellent antifouling performance over a long period of time.
<b>Performance</b>			

15 knots  
50% activity  
38 months

# Minimising hull resistance

With TIPSMA technology the ultra-low frictional resistance is being maintained and the service life is extended up to 90 months period.

UP to 90 months



# Minimising speed loss

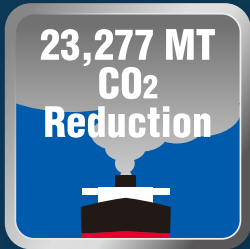
Expected average speed loss 1.5% for 60months

Speed loss 1.5%



# Benefit

Minimised speed loss provides not only environmental benefit that significantly reduce CO2 emissions but also operational cost benefit on fuel consumption over market average antifoulings.



**300K VLCC**  
 Service life: 60 months  
 Fuel consumption: 47MT/Day  
 Average speed: 12.5knots  
 Activity: 60%  
 Market average speed loss: 5%  
 Fuel price: \$800/MT  
 Estimated by PIR simulator



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**CHUGOKU MARINE PAINTS, LTD.**

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