

Advanced
Silyl Technology

SEA GRANDPRIN
900L

Silyl Technology hydrolysis antifouling

SEA GRANDPRIX 900L

Silyl Technology hydrolysis antifouling

SEA GRANDPRIX 900L derived from CMP's leading-edge technology in experienced silyl based products over 20 years in SEA GRANDPRIX series. The product is designed to provide outstanding fuel saving performance for worldwide trading ships and it can be also specified for coastal ships as well as offshore facilities.

Excellent antifouling performance

Long life-time up to 90 months

Excellent overcoatability

Achieving low CO₂ emissions

Low numeric FIR value

CMP's unique silyl technology

A silyl based polymer was invented since CMP voluntarily stopped distribution of TBT antifouling in 1993 before AF-S convention was ratified. The silyl polymer with a constant polishing rate and the hydrolysis reaction during seawater trading provides the outstanding antifouling performance for a long period in combination with specific biocides. CMP can provide a long-life antifouling performance by controlling the leaching rate of unique silyl based products through different product formulations.

Proven performance

Proto type of SEA GRANDPRIX 900 L, Arrival condition after 36 months



Advanced Silyl Technology

Static performance

3 months seawater immersion result in Hiroshima, Japan.



Blank
(No antifouling)



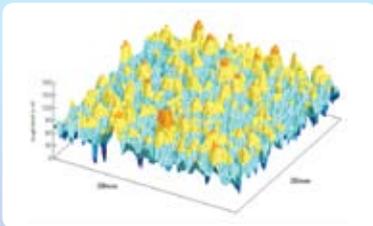
Proven silyl
product



SEA GRANDPRIX
900L

3D diagram – Smooth surface

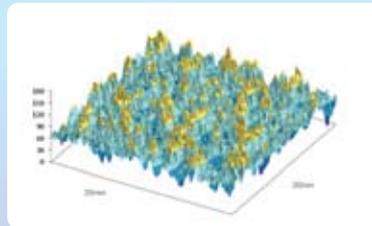
Proven silyl product



Rz = 87.4
RSm = 2834

FIR 7.1%

SEA GRANDPRIX 900L



Rz = 86.5
RSm = 2828

FIR 6.9%

FIR Friction Increase Ratio
THEORY
(Patented technology)

Low FIR = Higher Fuel Savings

SEA GRANDPRIX 900L	6.9
Proven silyl product	7.1
Conventional AF	12 - 15

FIR translates into potential fuel savings when considered with vessel hull forms

*FIR(%) is shown to identify the Low Friction systems.

$$\text{FIR}(\%) = 2.62 \times \frac{\text{Rz}^2}{\text{roughness}} \div \frac{\text{RSm}}{\text{wavelength}}$$

FIR can be estimated from the roughness(Rz) & wavelength(RSm) of the surface, through the above mathematic formula.





CMP CHUGOKU MARINE PAINTS, LTD.

HEADQUARTERS

Tokyo Club Building, 2-6, Kasumigaseki 3-chome, Chiyoda-ku, Tokyo, 100-0013, Japan TEL : 81-(3)3506-3971 FAX : 81-(3)5511-8542

Website: <http://www.cmp.co.jp/global>

- The information given in this sheet is effective at the date shown below and subject to revision from time to time without notice.
- All information contained herein concerning our products or services is protected by copyright law and other applicable laws.
- Any unauthorized use, including copying, replication or reprocessing of the contents, text and/or images contained in this brochure, or distribution of the same, is strictly prohibited.