

# PPG SIGMA SAILADVANCE™ RX and GX

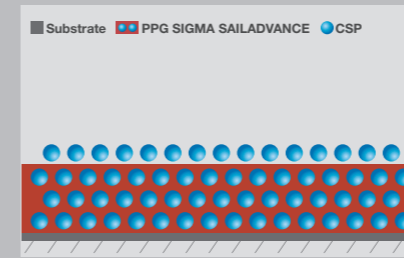
Advanced low-friction, self-lubricating antifouling  
with extended idle times

We create products that save energy and reduce fuel costs.

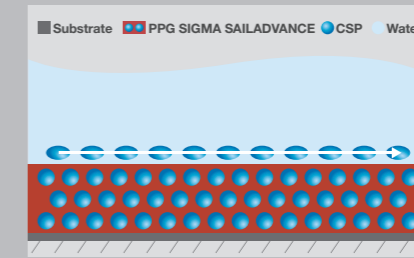


# Energy saving antifouling coatings for lower operational costs

Low friction: upon contact with moving water, the Controlled Surface active Polymers (CSPs) will stretch in the direction of the flow.

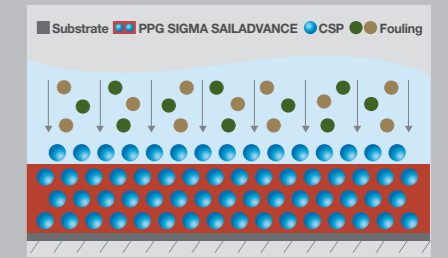


CSPs in antifouling submerged and static



Fully submerged and in water flow, the stretched CSPs support laminar flow at higher speeds and result in lower hydrodynamic friction

Extended idle days: upon contact with water the CSPs will form a slippery surface.



Fully submerged and static. The slippery surface will reduce the ability of fouling to adhere

## PPG SIGMA SAILADVANCE – energy saving antifouling coatings for lower operational costs

We developed our innovative range of PPG SIGMA SAILADVANCE antifouling coatings with the goal of reducing energy consumption and therefore lowering total operational costs.

Powered by a unique range of premium technologies, these products cover a wide range of operating conditions and vessel types.

Thanks to an innovative self-smoothing mechanism, PPG SIGMA SAILADVANCE antifouling coatings are proven to deliver fuel savings averaging 5%. Improved idle time tolerance, linear polishing and low friction are among the many other benefits offered by the PPG SIGMA SAILADVANCE series.



## Our innovative in-house developed CSP technology leads to predictable best-in-class performance

The latest additions to this range, PPG SIGMA SAILADVANCE RX and GX are based on innovative self-release binder technology which uses our patented Controlled Surface active Polymers (CSPs). Both coatings are suitable for application at new build and dry dock.

Like all products in the PPG SIGMA SAILADVANCE series, these coatings are designed for all vessel types and operating speeds. Due to their unique CSPs composition they are also particularly effective for slow-steaming ships.

These CSPs act as a lubricant on the coating/water interface. This supports laminar flow and thereby reduces hull friction when the ship is sailing.

The CSPs also create a slippery surface that resists fouling when the ship is not sailing. This extends possible idle time up to 30 days on average without affecting the hull's performance.

PPG SIGMA SAILADVANCE RX and GX are easy and efficient to apply. Their linear polishing and consistent biocide release capabilities also ensure a predictable performance for up to 90 months.

## Traditional antifouling



## PPG SIGMA SAILADVANCE RX/GX



The release effect of CSPs creating a slippery surface and low friction properties

## Features and benefits

- Designed for all vessel types and speeds
- Particularly effective for slow steaming ships due to patented CSPs engineered surface
- Suitable for application at new build and dry dock
- Fuel savings averaging 5%
- Evolves in a linear polishing and consistent biocide release for predictable performance up to 90 months
- Low-friction properties from lubricating CSPs, suppressing turbulent flow
- Extended idle days through the release effect of CSPs creating a slippery surface
- Constant surface activity, limited leach layer build-up

The table below provides a quick reference to help you find the most compatible solution for your ship's operating conditions.

	PPG SIGMA SAILADVANCE RX	PPG SIGMA SAILADVANCE GX
Idle time tolerance	Averaging 25 days	Averaging 30 days
Vessel operating rate	50-90%	40-80%
Volume solids	54%	59%



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