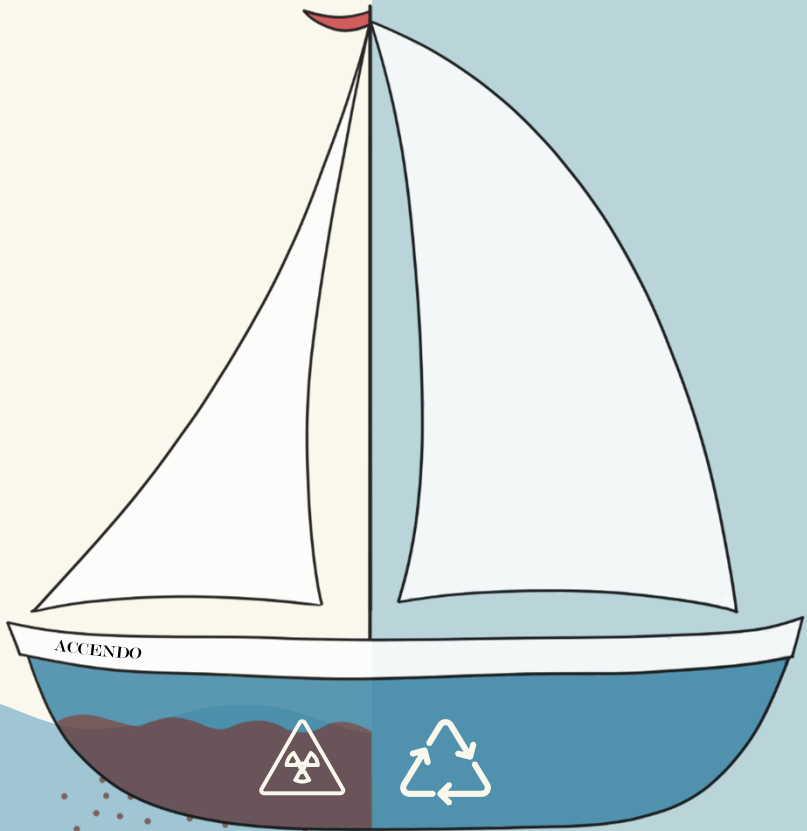


WICKED AF*



*anti-fouling

ED AF*



¹ Detty, M. R., Ciriminna, R., Bright, F. V., & Pagliaro, M. (2015). Xerogel Coatings Produced by the Sol-Gel Process as Anti-Fouling, Fouling-Release Surfaces: From Lab Bench to Commercial Reality. *ChemNanoMat*, 1(3), 148-154.

<https://doi.org/10.1002/cnma.201500056>

² Dibke, C., Fischer, M., & Scholz-Böttcher, B. M. (2021). Microplastic Mass Concentrations and Distribution in German Bight Waters by Pyrolysis-Gas Chromatography-Mass Spectrometry/Thermochemolysis Reveal Potential Impact of Marine Coatings: Do Ships Leave Skid Marks? *Environmental Science & Technology*, 55(4), 2285-2295. <https://doi.org/10.1021/acs.est.0c04522>

³ Almeida, E., Diamantino, T. C., & de Sousa, O. (2007). Marine paints: The particular case of antifouling paints. *Progress in Organic Coatings*, 59(1), 2-20.

<https://doi.org/10.1016/j.porgcoat.2007.01.017>

⁴ Gola, D., Kumar Tyagi, P., Arya, A., Chauhan, N., Agarwal, M., Singh, S. K., & Gola, S. (2021). The impact of microplastics on marine environment: A review. *Environmental Nanotechnology, Monitoring & Management*, 16, 100552.

<https://doi.org/10.1016/j.enmm.2021.100552>

⁵ Lebreton, L., Egger, M., & Slat, B. (2019). A global mass budget for positively buoyant macroplastic debris in the ocean. *Scientific Reports*, 9(1), Article 1.

<https://doi.org/10.1038/s41598-019-49413-5>

⁶ Homepage-EN - Finsulate. (n.d.). Finsulate. Retrieved November 11, 2022, from <https://www.finsulate.com/en/>

⁷ Coppercoat Antifoul - Environmentally Responsible Bottom Paint. (n.d.).

Retrieved November 11, 2022, from <https://coppercoat.com/>

⁸ Selektope in the antifouling keeps the ship hull free from barnacles. (n.d.).

Selektope. Retrieved November 11, 2022, from <https://selektope.com/>

⁹ Sonihull ultrasonic anti-fouling systems. (n.d.). Sonihull. Retrieved November 11, 2022, from <https://sonihull.com/sonihull-systems/>

WICKE



*anti-fouling

NON-SUSTAINABLE

900 MILLION LITRES

of anti-fouling paints are used yearly¹

1194 TONNES

of **microplastics** come from conventional anti-fouling paint annually²

3000 TONNES

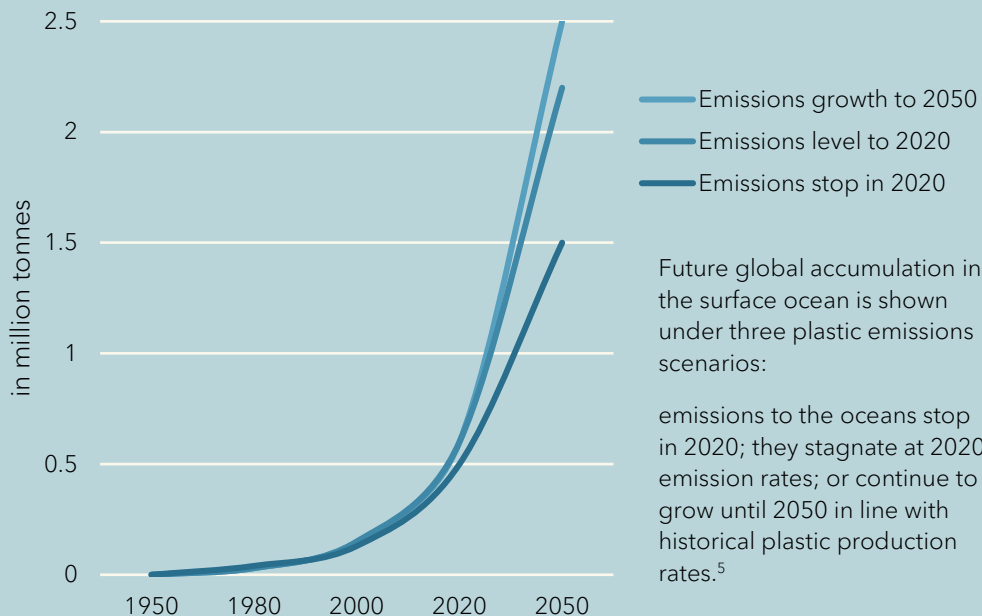
of **copper biocides** are released into the water every year³

Over time, conventional anti-fouling paints dissolve slowly into the water. While the paint dissolves, the biocides within are released, and the surrounding marine life is subsequently harmed.³ The residue paint consists of microplastics that end up in the ocean.²
















- 1 Fish consume **microplastics** and absorb **toxic elements** of the anti-fouling paint⁴
- 2
- 3 Humans eat fish, ingesting these elements as well⁴

This leads to **health risks** such as cancer, impaired immune systems & oxidative stress⁴

Microplastics in the surface ocean, 1950 to 2050



SUSTAINABLE

Type of boat \ Type of water	Vessels	Yachts	Motorboats	Speedboats	Pleasure Crafts
Salt					
Brackish					
Fresh					

FINSULATE is a microfiber anti-fouling wrap that lasts up to 5 years. It can only be applied by certified companies but is easily maintained with a high-pressure water cleaner.⁶



COPPERCOAT is a tin-free copper-based coating that lasts up to 10 years. It can be easily applied and maintained by the boat owner.⁷

SELEKTOPE is a powerful anti-fouling agent that lasts up to 5 years. It uses receptor simulation to repel barnacles and can be easily applied and maintained.⁸

selektope®



SONIHULL is an ultrasonic anti-fouling system that lasts a lifetime if properly maintained. It produces ultrasonic energy to prevent biofouling.⁹