## Amphiphobic coatings for protection in marine environment

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In the marine field the use of highly hydro and olephobic (amphiphobic) materials is relatively young and not very explored. Amphiphobic materials created for marine applications could be an innovative solution where technological and ecological aspects allow to be merged, taking into account the limitations imposed by international laws in terms of environmental protection.

In particular, in this work a coating with amphiphobic/superamphiphobic behaviour for marine applications has been characterized and tested in both laboratory and field conditions, since investigations in real seawater are crucial to evaluate the behaviour of SH/SO surfaces because of a complexity not reproducible in laboratory. Because of the real conditions where the surface can operate, preliminary tests of wearing, thermal stress and durability have been also performed in order to study amphiphobic systems for different applications related to the marine environment.

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