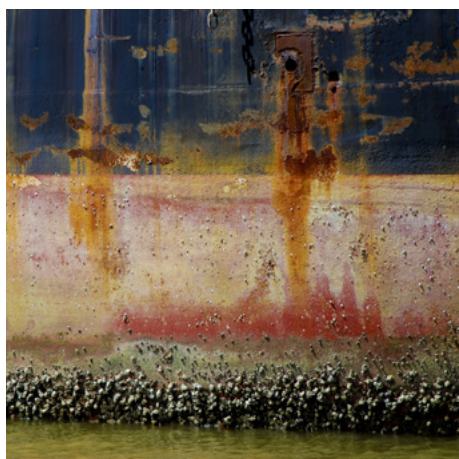


FUMED SILICA

# AEROSIL® 4200 for Marine Coatings

Structure modified, hydrophilic fumed silica for Anti-fouling applications

NEW



## AEROSIL® 4200

- Controlled release of the biocide - less biocide needed
- Tailor-made for environmentally friendly formulations
- Fulfills regulatory restrictions
- Reinforcement of bulk paint matrix

Suitable for solventborne systems, CDP as well as SPC coatings.

(CDP = Controlled Depletion Polymer)

(SPC = Self-Polishing Coating)



## Easy to incorporate & high addition level possible

- Relatively low thickening effect
- Therefore high loading is possible
- Use of bead mill recommended for optimum dispersion
- TEGO® Dispers 1010 supports the incorporation of AEROSIL® 4200
- AEROSIL® 4200 form adduct with  $\text{Cu}_2\text{O}$
- 4-6% addition level by weight recommended
- A ratio of 1:1:1:1  
(AEROSIL® 4200 :  $\text{Cu}_2\text{O}$  : ZnO : Co-biocide)  
in the dry volume proved beneficial



[Click here for more information!](#)

## Outstanding immersion results with AEROSIL® 4200 in SPC

- Silylacrylate system
- 10 months immersion in warm water
- Even slightly better performance than blank (32% Cu<sub>2</sub>O)



Blank  
32% Cu<sub>2</sub>O

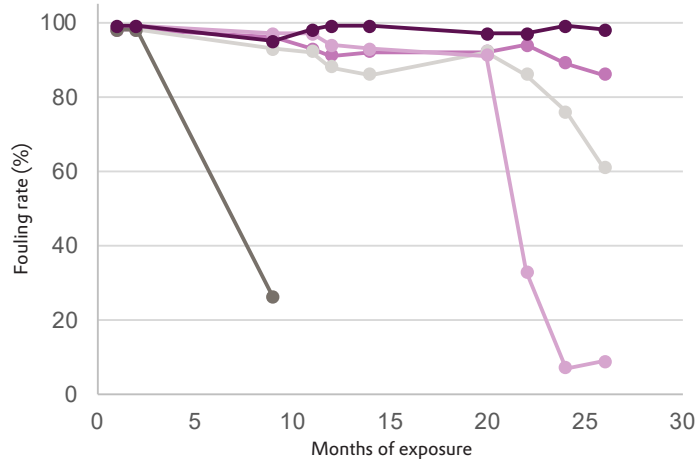


AEROSIL® 4200 : Cu<sub>2</sub>O  
4:12



PVC  
reference

## High performance with AEROSIL® 4200 in CDP systems



	Silica	Cu <sub>2</sub> O
—●—	6% AEROSIL® 4200	12%
—●—	6% AEROSIL® 4200	6%
—●—	12% AEROSIL® 4200	6%
—●—	0%	0%
—●—	0%	30%

- Test site in the north sea
- Fouling rate is calculated according to ASTM D 6990-03
- Fouling coverage on the surface is subtracted from 100%
- Low rating = high fouling

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