

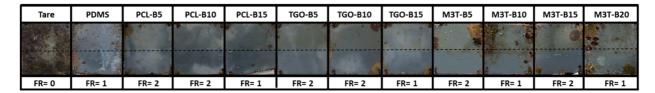
Supplementary Materials

## Hydrolyzable Additive-Based Silicone Elastomers: A New Approach for Antifouling Coatings

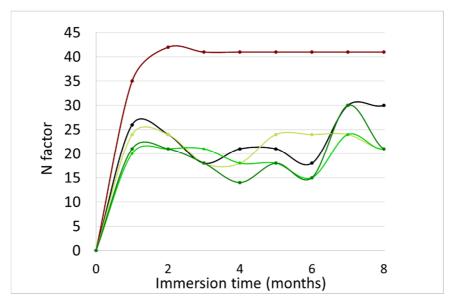
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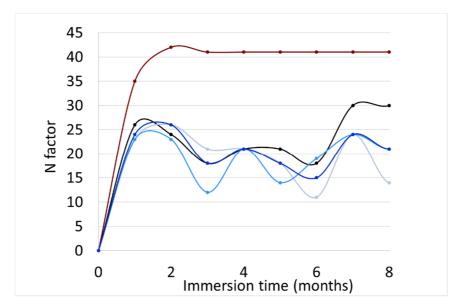
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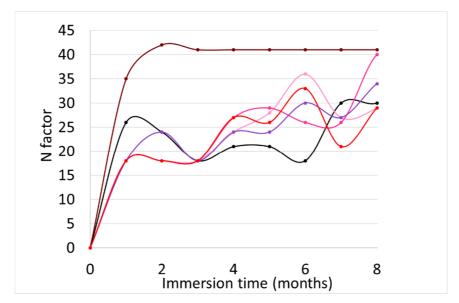
**Figure S1.** Evaluation of the fouling release ability after 8 months thanks to the cleaning of the lower half of the panel by means of a wetted sponge.



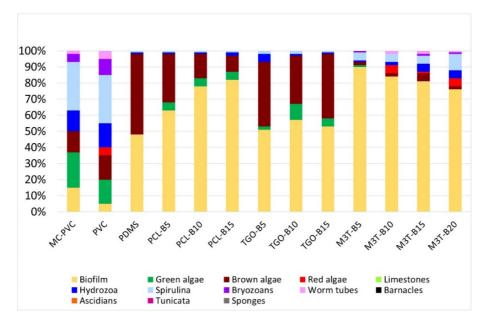
**Figure S2.** Evolution of the N factor of PCL-BX coated panels immersed for 8 months in Toulon bay with PVC panel (brown curve), PDMS reference (black curve), PCL-B5 (light green), PCL-B10 (medium green), PCL-B15 (dark green).



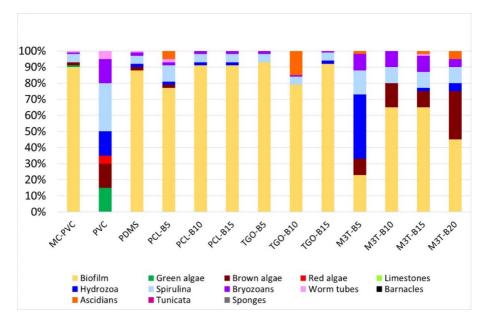
**Figure S3.** Evolution of the N factor of TGO-BX coated panels immersed for 8 months in Toulon bay with PVC panel (brown curve), PDMS reference (black curve), TGO-B5 (light blue), TGO-B10 (medium blue), TGO-B15 (dark blue).



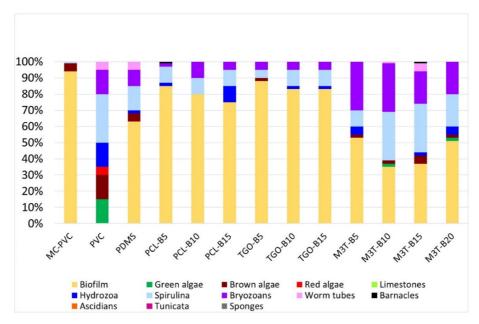
**Figure S4.** Evolution of the N factor of M3T-BX coated panels immersed for 8 months in Toulon bay with PVC panel (brown curve), PDMS reference (black curve), M3T-B5 (light pink), M3T-B10 (dark pink), M3T-B15 (purple) and M3T-B20 (red).



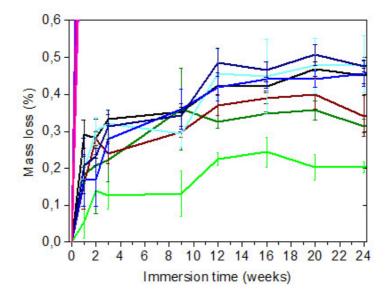
**Figure S5.** Determination of the percentage of the coated surface covered by several type of marine organisms for 2 months of immersion (MC-PVC corresponds to a monthly changed PVC panel to show the seasonal variations).



**Figure S6.** Determination of the percentage of the coated surface covered by several type of marine organisms for 6 months of immersion in Toulon bay (MC-PVC corresponds to a monthly changed PVC panel to show the seasonal variations).



**Figure S7.** Determination of the percentage of the coated surface covered by several type of marine organisms for 8 months of immersion in Toulon bay (MC-PVC corresponds to a monthly changed PVC panel to show the seasonal variations).



**Figure S8.** Mass loss (%) in deionized water at room temperature of PDMS reference (black curve), TGO-B5 (light blue), TGO-B10 (medium blue), TGO-B15 (dark blue), PCL-B5 (light green), PCL-B10 (medium green) and PCL-B15 (brown).

**Table S1.** Amount of cypris larvae tested on each coating, amount of fixed cypris larvae and the resulting adhesion percentage values.

Tested coating	Total tested cypris larvae	Fixed cypris larvae	Adhesion percentage (%)	Average adhesion percentage (%)	Standard deviation (%)
PS	9	6	66,7		
	9	9	100,0	87	16
	11	11	100,0		
	21	17	81,0		
PDMS	8	5	62,5	72	21
	15	15	100,0		
	6	3	50,0	_	
	4	3	75,0		
PCL-B5	6	0	0,0	38	35
	3	2	66,7	-	
	19	13	68,4	-	
	6	1	16,7		
PCL-B10	10	10	100,0	48	49
	8	1	12,5		
	7	0	0,0		
	10	8	80,0	25	20
PCL-B15	7	3	57,1	25	30
	3	0	42,9	-	
	6	0	0,0		
	8	4	50,0	68	15
TGO-B5	9	7	77,8	00	15
	27	22	81,5		
	8	5	62,5		
	17	15	88,2	88	9
TGO-B10	20	17	85,0		
	15	15	100,0		
	14	11	78,6		
TGO-B15	7	0	0,0	20	24
	7	2	28,6		
	5	0	0,0		
	10	5	50,0		
M3T-B5	5	3	60,0	79	16
	9	7	77,8		
	5	5	100,0		
	9	7	77,8		
M3T-B10	4	2	50,0	30	18
	8	1	12,5		
	5	2	40,0		
	11	2	18,2		
M3T-B15	5	0	0,0	13	19
	8	1	12,5		
	22	0	0,0		
	5	2	40,0		

M3T-B20	6	0	0,0	7	8
	9	0	0,0		
	14	2	14,3		
	15	2	13,3		



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