

Table S1: Colour parameters (L^* , a^* and b^*) and their respective variations during their exposure (15, 30, 45, 60 and 70 days) to the different UV-radiations (UV-A: uA and UV-B: uB) considering the uncoated surfaces or those with consolidants (NanoEstel-N and Estel1000-E) and different TiO_2 contents (0, 0.5, 1 and 3% TiO_2) as the reference color (i.e. ref in the ID of each sample). Moreover, the color changes of the surfaces after being covered with soot was also determined. Check Table 1 for the labelling. Moreover, the global color change (ΔE^*_{ab}) was also computed. n=60.

ID	L^*	a^*	b^*	ΔL^*	Δa	Δb^*	ΔE^*_{ab}
uA-ref	77.269	3.11	7.72				
uA-soot	23.65	0.48	0.95	-53.62	-2.63	-6.77	54.11
uA-15	23.56	0.52	1.05	-53.71	-2.59	-6.67	54.18
uA-30	23.93	0.55	0.93	-53.34	-2.56	-6.79	53.83
uA-45	23.51	0.54	1.08	-53.76	-2.57	-6.64	54.23
uA-60	21.94	0.43	0.91	-55.33	-2.67	-6.81	55.81
uA-75	24.84	0.57	0.93	-52.43	-2.53	-6.79	52.93
uB-ref	80.13	2.94	8.08				
uB-soot	22.76	0.42	1.04	-57.38	-2.52	-7.04	57.86
uB-15	22.83	0.40	0.80	-57.30	-2.54	-7.28	57.82
uB-30	21.70	0.44	0.88	-58.43	-2.50	-7.20	58.93
uB-45	21.05	0.22	0.64	-59.08	-2.71	-7.44	59.61
uB-60	22.82	0.49	1.02	-57.31	-2.44	-7.06	57.80
uB-75	22.79	0.45	0.90	-57.34	-2.49	-7.17	57.84
E0%-uA-ref	78.12	2.35	7.91				
E0%-uA-soot	22.52	0.57	1.46	-55.60	-1.78	-6.45	56.00
E0%-uA-15	22.75	0.56	1.45	-55.38	-1.79	-6.46	55.78
E0%-uA-30	22.36	0.59	1.45	-55.76	-1.76	-6.46	56.16
E0%-uA-45	22.85	0.48	1.39	-55.27	-1.87	-6.52	55.69
E0%-uA-60	22.76	0.52	1.53	-55.37	-1.84	-6.38	55.76
E0%-uA-75	22.63	0.63	1.43	-55.49	-1.72	-6.48	55.89
E0%-uB-ref	77.37	2.69	7.71				
E0%-uB-soot	22.70	0.70	1.64	-54.67	-1.99	-6.08	55.04
E0%-uB-15	23.28	0.82	1.83	-54.09	-1.87	-5.89	54.44
E0%-uB-30	23.30	0.78	1.75	-54.07	-1.91	-5.97	54.43
E0%-uB-45	22.85	0.86	1.94	-54.51	-1.83	-5.77	54.85
E0%-uB-60	23.60	0.77	1.80	-53.76	-1.91	-5.92	54.12
E0%-uB-75	23.27	0.85	1.85	-54.10	-1.84	-5.86	54.45
E0.5%-uA-ref	77.48	3.40	8.96				
E0.5%-uA-soot	19.54	0.52	1.08	-57.94	-2.88	-7.88	58.55
E0.5%-uA-15	19.28	0.58	1.11	-58.19	-2.83	-7.86	58.79
E0.5%-uA-30	19.30	0.56	1.05	-58.18	-2.84	-7.91	58.78
E0.5%-uA-45	19.50	0.51	1.14	-57.98	-2.89	-7.83	58.58
E0.5%-uA-60	19.02	0.42	0.96	-58.46	-2.98	-8.00	59.08
E0.5%-uA-75	19.58	0.55	0.93	-57.90	-2.85	-8.03	58.52
E0.5%-uB-ref	77.86	3.14	7.75				

E0.5%-uB-soot	19.84	0.58	1.17	-58.03	-2.56	-6.58	58.46
E0.5%-uB-15	19.98	0.71	1.37	-57.88	-2.42	-6.38	58.28
E0.5%-uB-30	20.60	0.75	1.25	-57.27	-2.38	-6.51	57.68
E0.5%-uB-45	19.63	0.66	1.05	-58.24	-2.48	-6.70	58.68
E0.5%-uB-60	21.76	0.82	1.34	-56.11	-2.32	-6.42	56.52
E0.5%-uB-75	21.95	0.74	1.17	-55.91	-2.40	-6.58	56.35
E1%-uA-ref	75.44	5.19	9.78				
E1%-uA-soot	21.61	0.86	1.45	-53.82	-4.33	-8.33	54.64
E1%-uA-15	21.31	0.86	1.42	-54.13	-4.32	-8.36	54.94
E1%-uA-30	20.59	0.81	1.26	-54.85	-4.38	-8.52	55.68
E1%-uA-45	20.98	0.82	1.36	-54.46	-4.37	-8.42	55.28
E1%-uA-60	20.07	0.77	1.10	-55.37	-4.41	-8.68	56.21
E1%-uA-75	21.52	0.87	1.15	-53.92	-4.31	-8.63	54.78
E1%-uB-ref	75.08	3.25	8.08				
E1%-uB-soot	25.87	1.14	2.00	-49.21	-2.11	-6.08	49.63
E1%-uB-15	26.81	0.97	1.60	-48.27	-2.27	-6.47	48.76
E1%-uB-30	28.58	0.92	1.40	-46.51	-2.33	-6.67	47.04
E1%-uB-45	27.97	0.90	1.42	-47.11	-2.34	-6.66	47.64
E1%-uB-60	30.28	0.76	1.39	-44.80	-2.49	-6.69	45.37
E1%-uB-75	31.88	0.92	1.38	-43.20	-2.33	-6.70	43.78
E3%-uA-ref	74.81	3.27	7.80				
E3%-uA-soot	24.14	0.49	-0.15	-50.68	-2.79	-7.96	51.37
E3%-uA-15	24.11	0.58	0.06	-50.70	-2.69	-7.74	51.36
E3%-uA-30	27.48	0.60	-0.40	-47.34	-2.67	-8.20	48.12
E3%-uA-45	31.08	0.58	-0.63	-43.73	-2.69	-8.43	44.62
E3%-uA-60	31.67	0.79	-0.36	-43.14	-2.48	-8.17	43.98
E3%-uA-75	34.09	0.68	-0.51	-40.73	-2.60	-8.32	41.65
E3%-uB-ref	77.14	2.32	6.93				
E3%-uB-soot	18.29	0.27	0.04	-58.85	-2.05	-6.89	59.28
E3%-uB-15	18.50	0.41	0.09	-58.63	-1.91	-6.84	59.06
E3%-uB-30	18.30	0.28	-0.51	-58.84	-2.04	-7.44	59.34
E3%-uB-45	21.85	0.35	-0.65	-55.28	-1.97	-7.58	55.84
E3%-uB-60	20.85	0.37	-0.77	-56.29	-1.95	-7.70	56.85
E3%-uB-75	24.62	0.45	-0.97	-52.52	-1.87	-7.90	53.14
N0%-uA-ref	76.59	2.80	7.70				
N0%-uA-soot	22.00	0.57	1.34	-54.59	-2.24	-6.36	55.01
N0%-uA-15	22.23	0.59	1.32	-54.36	-2.22	-6.37	54.77
N0%-uA-30	22.82	0.62	1.33	-53.77	-2.19	-6.37	54.19
N0%-uA-45	20.09	0.45	1.14	-56.50	-2.35	-6.56	56.93
N0%-uA-60	21.46	0.60	1.47	-55.13	-2.21	-6.23	55.53
N0%-uA-75	22.01	0.59	1.28	-54.58	-2.22	-6.42	55.00
N0%-uB-ref	80.80	3.46	8.92				
N0%-uB-soot	21.24	0.77	1.52	-59.55	-2.69	-7.41	60.07
N0%-uB-15	20.45	0.76	1.33	-60.35	-2.70	-7.60	60.89
N0%-uB-30	21.64	0.90	1.52	-59.16	-2.56	-7.40	59.67
N0%-uB-45	22.55	1.05	1.90	-58.25	-2.41	-7.03	58.72
N0%-uB-60	19.49	0.67	1.23	-61.31	-2.79	-7.70	61.85

N0%-uB-75	22.63	0.95	1.69	-58.16	-2.52	-7.24	58.67
N0.5%-uA-ref	77.29	2.79	7.18				
N0.5%-uA-soot	21.74	0.61	0.87	-55.55	-2.18	-6.31	55.95
N0.5%-uA-15	23.25	0.77	0.61	-54.04	-2.02	-6.57	54.48
N0.5%-uA-30	24.12	0.85	0.56	-53.17	-1.94	-6.62	53.61
N0.5%-uA-45	24.02	0.67	0.25	-53.27	-2.12	-6.92	53.76
N0.5%-uA-60	27.64	0.91	0.54	-49.65	-1.88	-6.63	50.13
N0.5%-uA-75	34.20	0.80	0.20	-43.09	-1.99	-6.98	43.70
N0.5%-uB-ref	76.21	2.92	8.79				
N0.5%-uB-soot	19.35	0.27	0.60	-56.85	-2.64	-8.19	57.50
N0.5%-uB-15	25.77	0.63	-0.09	-50.44	-2.28	-8.87	51.26
N0.5%-uB-30	28.32	0.82	0.33	-47.88	-2.09	-8.46	48.67
N0.5%-uB-45	31.51	0.67	0.56	-44.69	-2.25	-8.23	45.50
N0.5%-uB-60	31.24	0.71	0.18	-44.97	-2.21	-8.61	45.84
N0.5%-uB-75	34.20	0.80	0.20	-42.00	-2.11	-8.59	42.92
N1%-uA-ref	78.60	3.21	7.51				
N1%-uA-soot	21.41	0.73	0.83	-57.19	-2.48	-6.68	57.63
N1%-uA-15	22.80	0.93	0.62	-55.80	-2.28	-6.90	56.27
N1%-uA-30	24.18	0.90	0.06	-54.42	-2.31	-7.45	54.97
N1%-uA-45	25.88	0.82	-0.15	-52.72	-2.39	-7.67	53.33
N1%-uA-60	29.40	1.44	-0.66	-49.20	-1.78	-8.17	49.91
N1%-uA-75	32.93	1.19	-0.91	-45.67	-2.03	-8.43	46.48
N1%-uB-ref	75.94	2.73	7.29				
N1%-uB-soot	19.32	0.28	0.30	-56.62	-2.45	-6.99	57.10
N1%-uB-15	20.53	0.30	-0.52	-55.41	-2.43	-7.81	56.01
N1%-uB-30	23.87	0.31	-0.96	-52.07	-2.42	-8.25	52.77
N1%-uB-45	28.54	0.30	-1.35	-47.40	-2.43	-8.64	48.24
N1%-uB-60	30.59	0.34	-1.35	-45.34	-2.39	-8.64	46.22
N1%-uB-75	35.03	0.57	-0.74	-40.91	-2.16	-8.03	41.74
N3%-uA-ref	75.69	3.69	9.02				
N3%-uA-soot	20.13	0.26	-1.08	-55.56	-3.43	-10.10	56.58
N3%-uA-15	22.29	0.42	-2.16	-53.40	-3.27	-11.18	54.66
N3%-uA-30	26.03	0.47	-2.83	-49.66	-3.22	-11.86	51.15
N3%-uA-45	31.31	0.44	-4.02	-44.38	-3.25	-13.05	46.37
N3%-uA-60	34.54	0.50	-3.27	-41.15	-3.20	-12.29	43.06
N3%-uA-75	40.13	0.77	-3.90	-35.56	-2.92	-12.92	37.94
N3%-uB-ref	75.55	3.14	8.10				
N3%-uB-soot	24.47	0.25	-1.09	-51.08	-2.90	-9.19	51.98
N3%-uB-15	37.45	0.50	-1.29	-38.11	-2.64	-9.39	39.33
N3%-uB-30	51.08	0.72	-2.83	-24.47	-2.42	-10.92	26.91
N3%-uB-45	57.25	1.20	-1.75	-18.30	-1.95	-9.85	20.87
N3%-uB-60	61.95	0.69	-2.16	-13.60	-2.45	-10.26	17.21
N3%-uB-75	63.42	1.21	-1.33	-12.13	-1.94	-9.43	15.49