

Supplementary Materials of:

Article

Anti-Graffiti Coatings on Stones for Historical Buildings in Turin (NW Italy)

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Table S1. Roughness parameter R_{3z} (μm) of the uncoated stone and the surfaces coated with either the sacrificial or the permanent anti-graffiti after being cleaned with the respective products. $n=3$. Standard deviation are also shown.

Stone	ID Sample	R_{3z} (μm)
Granite	G	2.43 ± 1.05
	GVSa	10.31 ± 4.91
	GVS	3.64 ± 1.61
	GVP	2.39 ± 0.52
	GGSa	2.79 ± 0.43
	GGs	5.92 ± 0.41
	GGP	2.5 ± 0.14
Diorite	D	2.23 ± 0.64
	DVSb	2.25 ± 0.75
	DVS	1.52 ± 0.17
	DVP	2.45 ± 0.34
	DGSb	2.57 ± 1.1
	DGS	6.52 ± 1.38
	DGP	3.16 ± 1.1
Gneiss	Gn	33.77 ± 10.28
	GnVSa	15.35 ± 2.15
	GnVS	12.69 ± 2.59
	GnVP	10.57 ± 2.07
	GnGSa	31.94 ± 24.43
	GnGS	15.22 ± 3.73
	GnGP	12.75 ± 2.04
Travertine	T	5.23 ± 1.29
	TVSb	6.24 ± 0.47
	TVS	30.92 ± 14.37
	TVP	5.92 ± 0.92
	TGSb	11.56 ± 2.73
	TGS	10.13 ± 9.69
	TGP	5.43 ± 0.92

Table S2. Water absorption (Wa, Kg.s/m²) of the uncoated stone and the surfaces coated with either the sacrificial or the permanent anti-graffiti after being cleaned with the respective products. n=3. Standard deviations are also shown.

Stone	ID Sample	Wa (kg · s / m ²)
Granite	G	4.01 ± 1.05
	GVSa	1.49 ± 0.22
	GVS	1.36 ± 0.37
	GVP	1.6 ± 0.05
	GGSa	4.03 ± 0.73
	GGS	2.64 ± 0.28
	GGP	2.93 ± 0.13
Diorite	D	5.8 ± 1.08
	DVSb	2.04 ± 0.28
	DVS	1.52 ± 0.23
	DVP	1.93 ± 0.03
	DGSb	3.62 ± 0.34
	DGS	2.95 ± 0.51
Gneiss	DGP	2.55 ± 0.13
	Gn	7.37 ± 0.61
	GnVSa	2.97 ± 0.4
	GnVS	1.74 ± 0.27
	GnVP	1.37 ± 0.08
	GnGSa	4.53 ± 0.33
	GnGS	2.62 ± 0.49
GnGP	2.31 ± 0.19	
Travertine	T	10.37 ± 5.16
	TVSb	2.88 ± 0.55
	TVS	1.67 ± 0.39
	TVP	1.55 ± 0.08
	TGSb	3.29 ± 0.52
	TGS	2.31 ± 0.45
	TGP	2.07 ± 0.35

Table S3. Static contact angle ($^{\circ}$) of the uncoated stone and the surfaces coated with either the sacrificial or the permanent anti-graffiti after being cleaned the respective products. $n=3$. Standard deviations are also shown.

Stone	ID Sample	θ°
Granite	G	75.46 ± 0.4
	GVSa	86.87 ± 0.78
	GVS	91.26 ± 0.07
	GVP	99.73 ± 0.2
	GGSa	91.73 ± 0.19
	GGs	93.39 ± 0.46
	GGP	97.7 ± 0.02
Diorite	D	74.82 ± 0.32
	DVSb	83.87 ± 0.78
	DVS	94.14 ± 0.11
	DVP	102.86 ± 0.33
	DGSb	88.11 ± 0.03
	DGS	78.76 ± 0.36
	DGP	90.41 ± 0.17
Gneiss	Gn	61.12 ± 1.78
	GnVSa	90.21 ± 1.12
	GnVS	112.38 ± 0.25
	GnVP	94.08 ± 0.94
	GnGSa	91.15 ± 0.9
	GnGS	108.74 ± 0.26
	GnGP	106.59 ± 0.34
Travertine	T	79.08 ± 0.11
	TVSb	95.23 ± 0.25
	TVS	114.045 ± 0.18
	TVP	101.39 ± 0.64
	TGSb	97.23 ± 0.8
	TGS	113.17 ± 0.37
	TGP	109.35 ± 0.16