
Supplementary Information

Sorption of Nano-Zirconia on Calcite: Study on the Use of ZrO₂ as a Surface Consolidant

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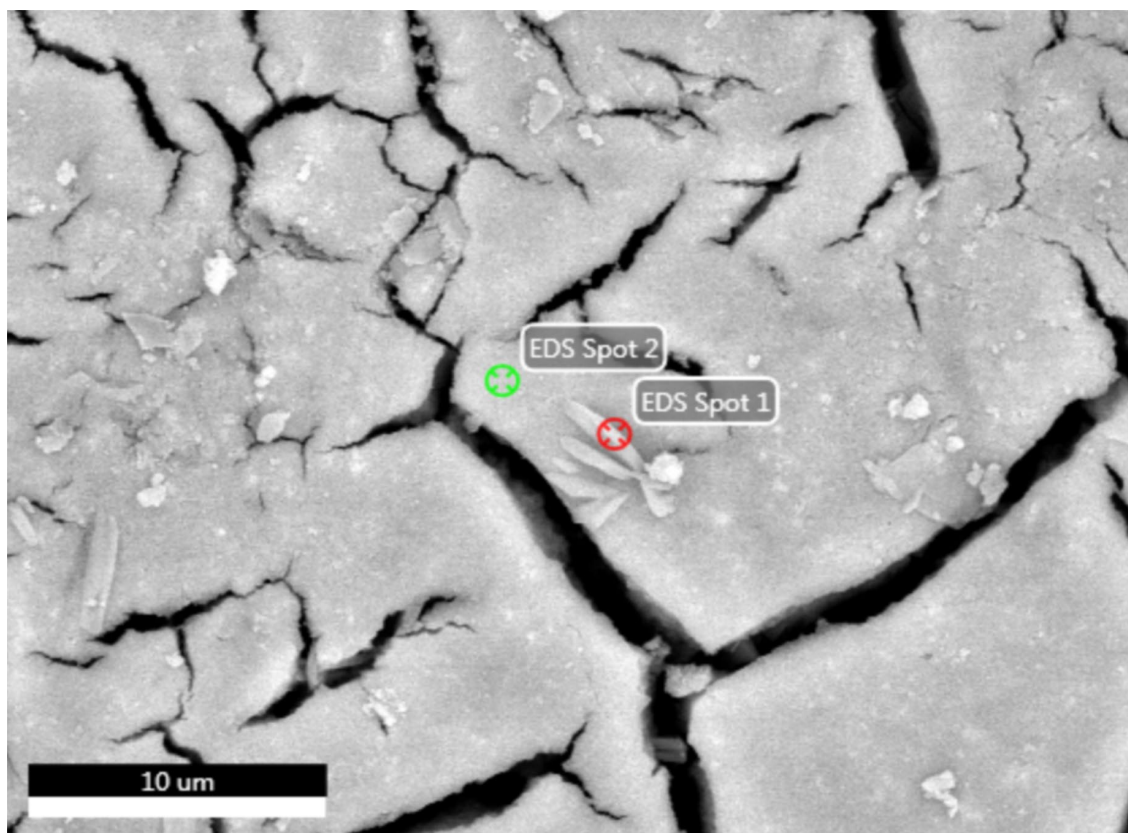
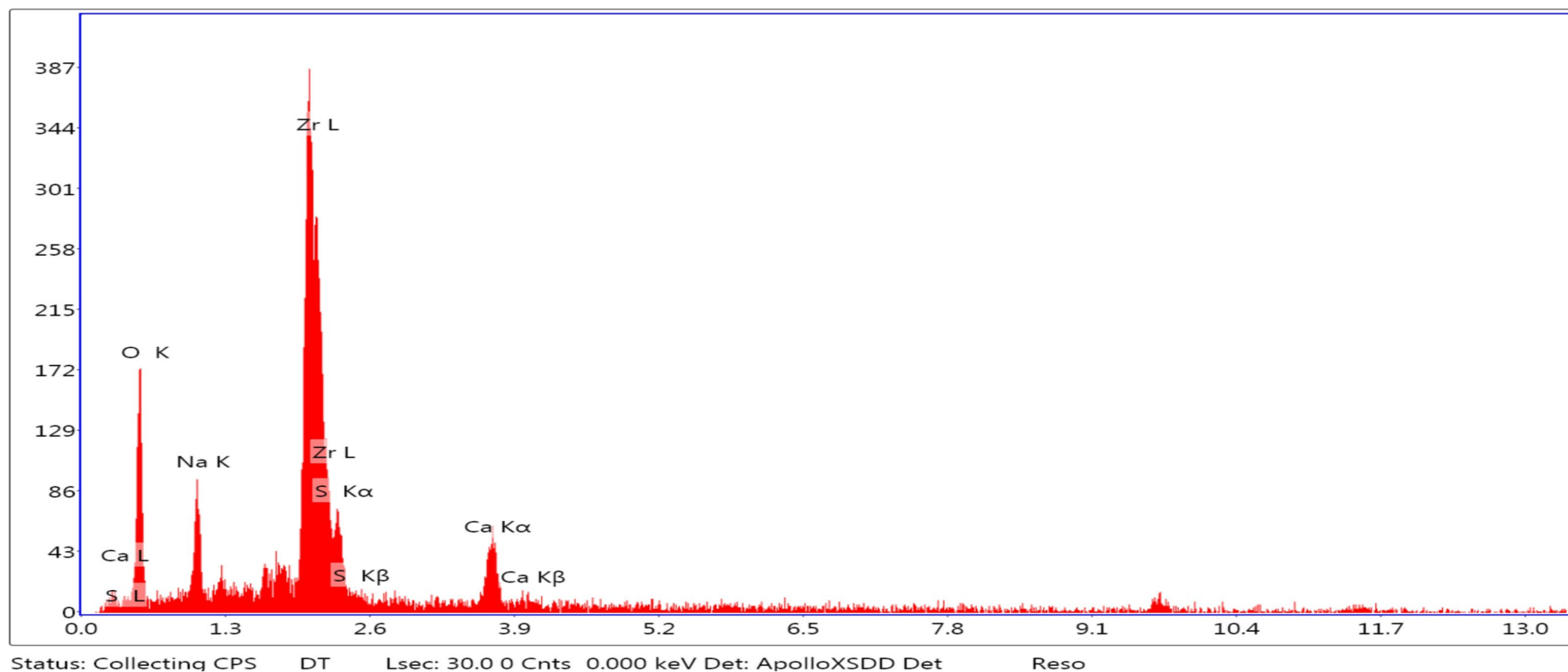


Figure S1. SEM-EDX analysis of the crystallized efflorescence on top of the cured Nano-Zirconia as applied on Apuan Marble (**EDS Spot 1**) and SEM-EDX analysis of the cured Nano-Zirconia as applied on Apuan Marble (**EDS Spot 2**)

EDS Spot 1

kV 20.2 Mag: 10000 Takeoff: 35.5 Live Time(s): 30 Amp Time(μ s): 12.8 Resolution: (eV) 126.5

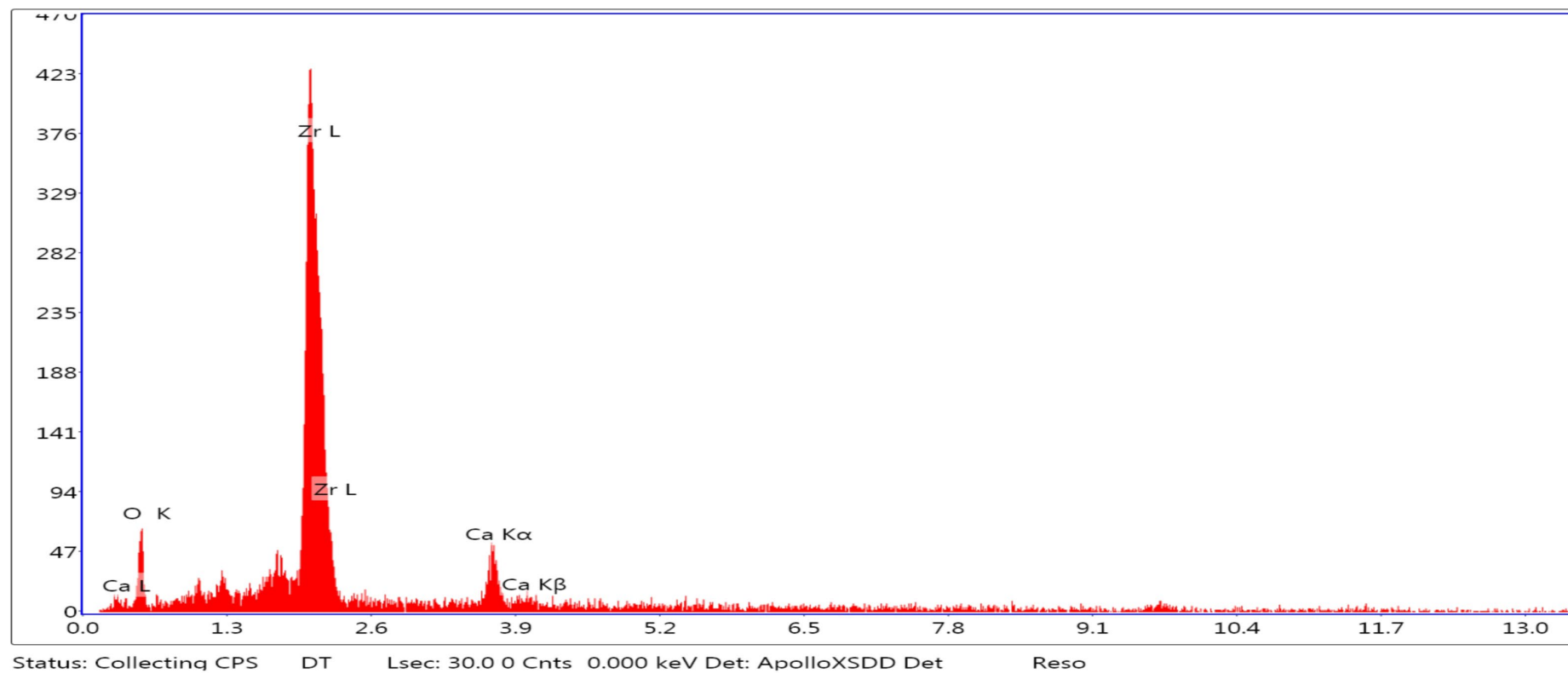


eZAF Smart Quant Results

Atomic				
Element	Weight %	%	Net Int.	Net Int. Error
O K	42.43	70.42	33.25	0.04
NaK	9.28	10.72	18.28	0.06
ZrL	37.73	10.98	103.04	0.03
S K	5.33	4.42	19.35	0.1
CaK	5.22	3.46	16.88	0.12

EDS Spot 2

kV 20.2 Mag: 10000 Takeoff: 35.5 Live Time(s): 30 Amp Time(μ s): 12.8 Resolution: (eV) 126.5



eZAF Smart Quant Results

O K	30.31	68.7	11.85	0.07
ZrL	62.6	24.89	120.51	0.03
CaK	7.09	6.42	14.85	0.16