

TABLE 1.2 Summary of Polymer-BG Coatings by EPD Reported in the Literature

Type of BG	Amount of BG	Size of BG	Polymer	Addition	Suspension Solvent	EPD Parameter	Substrate Material	Coating Thickness	Source
45S5	5–30 wt%	<3 μm	–	–	DI	2–10V, 3–10 min	SS/Ni-Ti wire	<30 μm	Krause et al. (2006)
53SiO ₂ -20CaO-23Na ₂ O, 4P ₂ O ₅ (wt%)	5 wt%	0.1–10 μm	–	–	Isopropanol	60V, 60 s	Ti ₆ Al ₄ V	8 μm	Braem et al. (2012)
45S5	1 wt%	2.4 μm	–	YSZ	Isopropanol +10 wt% PVA	200V, 60 s	YSZ on Ti ₆ Al ₄ V	15 μm	Radice et al. (2007)
SiO ₂ -P ₂ O ₅ -CaO-MgO	4 g/L	0.1–3 μm	–	–	EtOH +2.5 g/L triethanol amine	30,60,90 V/cm ²	SS	Only diagram	Mehdipour et al. (2012)
58S: 56SiO ₂ -36CaO-2O ₅ (wt%)	1 wt%	<32 μm	–	–	EtOH	50V, 15 min	Ti ₆ Al ₄ V		Faure et al. (2015)
SiO ₂ -CaO-MgO-10B ₂ O ₃ (wt%)	10, 20, 40 g/L	0.2–1.5 μm	–	–	EtOH	10–80V, 30–300 s	Ti ₆ Al ₄ V	10–15 μm	Zhang et al. (2011)

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