

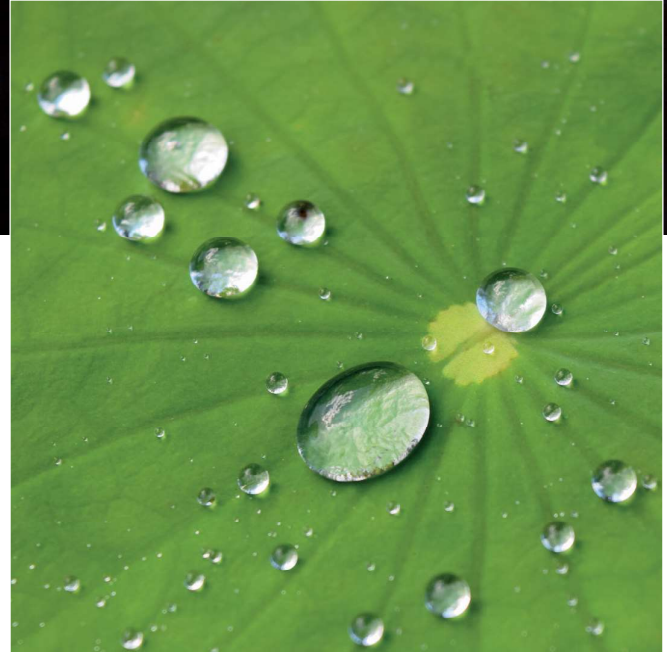
PLASMA Coating Technology

Competence. Quality. Reliability.

CK PLASMA Coatings

Our CK PLASMA coatings can help you make substantial savings within your electronics production processes, while increasing process reliability and, in turn, the profitability of your printing process. CK PLASMA is a functional surface coating that decreases the surface energy on the printing tool and in apertures. In other words, adhesion is significantly reduced.

Thanks to the coating, paste comes away much more readily, minimizing contamination. Our CK PLASMA coatings therefore ensure that the volume of paste is consistent throughout the entire printing process. This leaves plenty of scope for many more prints before the underside needs to be cleaned again.



Our **CK PLASMA 3** coating is a brand-new development that has been designed to allow you to meet the printing requirements of the future with process reliability guaranteed, with a particular focus on ultra fine line applications.

Overview of the Benefits and Applications of CK PLASMA Coatings

	PLASMA 1	PLASMA 2	PLASMA 3
■ CpK, process capability	+	+	++
■ Cleaning of the stencil underside	+	+	++
■ Chemical resistance	+	++	++
■ Mechanical resistance	+	++	++
■ Contact angle	+	+	++
■ Electropolishing (EP)	Required	Not required	Not required
■ Stencil material	Stainless steel	Stainless steel CK Nanovate™ Nickel	Stainless steel CK Nanovate™ Nickel
■ Component sizes	0201 QFP 0.5 mm BGA > 0.5 mm	01005, 0201 QFP 0.4 mm BGA > 0.4 mm	01015, 0201 met QFN 0.3 mm µBGA
■ Products	Stencil, screen, squeegee, tools	Stencil, squeegee, tools	Stencil, screen, squeegee, tools



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Specifications

	PLASMA 1	PLASMA 2	PLASMA 3
■ Layer thickness	500 nm	1,200 nm	500 nm
■ Application side	Full surface area of PCB side and in all apertures	Full surface area of PCB side and in all apertures	Full surface area of PCB side and in all apertures
■ Contact angle	>103° DI water	>103° DI water	>116° DI water

FAQs

» Where exactly on the stencil is the PLASMA Coating?

The coating is applied on the underside (circuit board side) and in the apertures using our PLASMA reactor. Coating the inner walls of the apertures ensures that paste comes away from them much more readily. The underside is coated to lower the chance of flux getting stuck.

» How resistant is the CK PLASMA coating?

Over the years, we have managed to continually improve the resistance of our CK PLASMA coating. When used properly, our CK PLASMA 3 coating can be relied upon to deliver a consistently high level of process reliability – even after more than 100,000 prints.

» Which cleaning media are suitable for the CK PLASMA coating?

Please get in touch if you would like us to send out a detailed list of the media we have already tested.

