

**WATER-BASED RESINS**

**SPCRYL**

**SPCRYL ADDITIVES**

Shiva's SPCRYL Additives meet the most stringent formulation requirements of ink and overprint varnish manufacturers: High molecular weight resins for high pigment loading, high solids dispersions used in quality ink for film, foil, and paper applications; general purpose, mid-range molecular weight resins for gloss, resolubility, and drying speed modification for use in inks and overprint varnishes; very low molecular weight resins used in high gloss overprint varnishes and label inks.



Product	Appearance	Key Properties	Non-volatiles %	pH (30°C)	Viscosity (cps @ 30°C)	Molecular Weight	Acid Number (on solids)	Tg (°C)	Descriptions & Applications
SP Zinc 15	Clear solution	Cross-linking agent, improve film hardness, high heat resistance	14 - 16	10 to 12	Up to 50 cps	NA	NA	NA	Zinc solution as a cross-linking agent for water and heat resistance also improve film hardness in inks and varnishes
SP Wax 35	Translucent dispersion	Easy to handle, enhanced scuff and scratch resistance, anti-blocking	33 - 35	9.5 - 11.5	Up to 100 cps	NA	NA	NA	Uniform nano particle size polyethylene wax dispersion that improves rub and mar resistance in inks and varnishes

