WATER-BASED RESINS

SPCRYL

STYRENE ACRYLIC RESINS

Shiva's SPCRYL Solid Resins 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 %	Molecular Weight	Acid Number (on solids)	Tg('C)	Descriptions & Applications
SPCRYL LOP	Clear Flakes	Glycol Ether Free, Highest Gloss, High Solid/Low, Viscosity Solutions, Excellent Re-Solubility	Min 99	1700 - 2300	230 - 240	75 - 85 °C	Lowest molecular weight acrylic resin designed for high gloss with high solid formulation in inks and varnishes
SPCRYL LOFG		Glycol Ether Free, Gloss Improvement, Increase of transfer and Re -Solubility, Improvements of Block & Heat Resistance,	Min 99	4000 - 6000	220 - 230	100 - 110 °C	Low molecular weight acrylic resin designed for high gloss with high solid formulation in inks and varnishes
SPCRYL MOFG		Glycol Ether Free, Gloss Improvement, Increase of transfer and Re -Solubility, Improvements of Block & Heat Resistance,	Min 99	8000 - 9000	220 - 230	115 - 125 °C	General purpose, mid-molecular weight acrylic resin designed for inks and varnishes formulations
SPCRYL PGR		Making high quality emulsions, Excellent rheological behavior, Gloss improvement, Increase of transfer & re-Solubility Improvements of block & heat resistance	Min 99	8000 - 9000	220 - 230	105 - 115 °C	Glycol based, general purpose, mid-molecular weight acrylic resin designed for inks and varnishes formulations
SPCRYL HOFG		Glycol Ether Free, Increase of Transfer & re-Solubility, Improvements of Block & Heat resistance, Excellent Print Characteristics	Min 99	11,000 - 12,000	220 - 230	125 - 135 °C	High molecular weight, acrylic resin designed for high quality varnishes as well as pigment dispersions
SPCRYL HOFG-H		Glycol Ether Free, Increase of Transfer & re-Solubility, Improvements of Block & Heat resistance, Excellent Print Characteristics	Min 99	12,000 - 13,000	220 - 230	125 - 135 °C	High molecular weight, acrylic resin designed for high quality varnishes as well as pigment dispersions
SPCRYL 160		Glycol Ether Free, Excellent Pigment dispersion, Improvement in Color Strength , Excellent ink Stability	Min 99	15,000 - 17,000	220 - 240	130 - 140 °C	Very High molecular weight, acrylic resin designed for high quality pigment dispersions
SPCRYL 170		Glycol Ether Free, Excellent Pigment dispersion , Improvement in Color Strength , Excellent ink Stability	Min 99	16,000 - 18,000	220 - 240	130 - 140 °C	Highest molecular weight, acrylic resin designed for high quality pigment dispersions