

06. SHIVA PRODUCT SELECTION GUIDE – PRINTING & PACKAGING INDUSTRY

WATER-BASED RESINS

SPCRYL

STYRENE ACRYLIC RESIN SOLUTIONS

Shiva's SPCRYL Resin Solutions meet the most stringent formulation requirements of inks and overprint varnish manufacturers.

Product	Appearance	pH	Solids %	Brookfield viscosity, cps @ 30 degree	Acid Value	Tg (°C)	Descriptions & Applications
SPCRYL 50 ECO	Amber clear liquid	8.5 - 9.5	48 - 52	1500 - 2500	240	75	50% Solution of SPCRYL LOP Resin designed for high solid formulation which provides high gloss and hold out properties.
SPCRYL 55 ECO	Amber clear liquid		53 - 55	2000 - 4000	240	75	55% Solution of SPCRYL LOP Resin designed for high solid formulation which provides high gloss and hold out properties.
SPCRYL 75 ECO	Yellow clear liquid		33 - 34	1000 - 2000	220	95	33% solution of SPCRYL LOFG Resin used as dispersion for gloss, hold out and resolubility in inks and varnishes
SPCRYL 59	Yellow clear liquid		31 - 33	1000 - 2000	220	110	32% solution of mid-molecular weight acrylic resin designed for gloss, hold out and resolubility in inks and varnishes
SPCRYL 60 ECO	Yellow clear liquid		34 - 35	4000 - 6000	220	110	Solvent free general purpose acrylic dispersion of 34% mid-molecular weight resin for gloss, hold out and resolubility in inks and varnishes
SPCRYL 60 MEA	Amber clear liquid		38 - 40	5000 - 8000	220	110	MEA based, low smell, general purpose acrylic dispersion of 34% mid-molecular weight resin for inks and varnishes
SPCRYL 61	Yellow clear liquid		34 - 36	4000 - 6000	220	110	General purpose acrylic dispersion of 34% mid-molecular weight resin for gloss, hold out and resolubility in inks and varnishes
SPCRYL 61 MEA	Amber clear liquid		38 - 40	3000 - 6000	220	110	MEA based, low smell, general purpose acrylic dispersion for gloss, hold out and resolubility in inks and varnishes
SPCRYL 63	Yellow clear liquid		30 - 32	3000 - 6000	220	120	High molecular weight acrylic dispersion for higher quality pigment grinding
SPCRYL 63 MEA	Amber clear liquid		30 - 32	8000 - 12000	220	120	MEA based high molecular weight acrylic dispersion for higher quality pigment grinding



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HPD RESIN SOLUTIONS

Shiva's SPCRYL HPD line of resin solutions allow ink manufactures to make pigment dispersions that reduce milling time, are higher in pigment loading and color development, are viscosity stable and compatible in most water-based ink systems.

Product	Appearance	pH	Solids %	Brookfield viscosity, cps @ 30 degree	Acid Value	Tg(°C)	Descriptions & Applications
SPCRYL 160 EH	Yellow clear liquid	8.5 - 9.5	33 - 35	3000 - 6000	230	125	High solid, high viscosity and high molecular weight dispersion for high quality pigment dispersions.
SPCRYL 160 EU	Yellow clear liquid		30 - 32	1500 - 3000	230	125	High solid and low viscosity dispersion designed for high quality pigment dispersion. High pigment loading with low viscosity.
SPCRYL 160 MEA	Amber clear liquid		38 - 40	4000 - 6000	230	110	MEA based high solid and low viscosity dispersion designed for high quality pigment dispersion. High pigment loading with low viscosity.
SPCRYL 160 EMEA	Amber clear liquid		35 - 38	1500 - 2500	230	110	MEA based high solid and low viscosity dispersion designed for high quality pigment dispersion. High pigment loading with low viscosity.
SPCRYL 170E	Yellow clear liquid		27 - 29	500 - 1000	230	130	High molecular weight dispersion for high quality pigment dispersions
SPCRYL 196	Yellow clear liquid		35 - 37	3000 - 6000	200	85	High pigment dispersion, cost effective
SPCRYL 296	Amber clear liquid		35 - 36	200 - 600	140	20	Acrylic dispersion designed for high pigment loading with low viscosity and stability
SPCRYL 396	Yellow clear liquid		30 - 32	100 - 500	220	NA	Acrylic dispersion designed for high pigment loading with low viscosity and stability
SPCRYL 496	Yellow clear liquid		34 - 35	300 - 800	220	NA	Acrylic dispersion designed for high pigment loading with low viscosity and stability
SPCRYL 1134	Yellow clear liquid		34 - 36	100 - 1000	NA	NA	Acrylic dispersion designed for high pigment loading with lowest viscosity and stability
SPCRYL 2230	Yellow clear liquid		30 - 32	200 - 800	NA	100 - 105	Acrylic dispersion designed for high pigment loading with lowest viscosity and stability

