

WATER-BASED RESINS

SPCRYL

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 disperison for high quality pigment dispersions. |
| SPCRYL 160 EU | Yellow clear liquid | | 30 - 32 | 1500 - 3000 | 230 | 125 | High solid and low viscosity dipersion 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 dipersion 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 dipersion 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 |

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HPD RESIN SOLUTION – N SERIES

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. HPD N Series is new version of existing product line with enhanced properties from pigment dispersions to low viscosity features.



| Product | Appearance | pH | Solids % | Brookfield viscosity, cps @ 30 degree | Acid Value | Tg (°C) | Descriptions & Applications |
|-----------------|---------------------|-----------|----------|---------------------------------------|------------|-----------|--|
| SPCRYL 160 EH-N | Yellow clear liquid | 8.5 - 9.5 | 33 - 35 | 3000 - 6000 | 230 | 105 - 115 | Acrylic dispersion designed for high pigment loading with low viscosity and stability |
| SPCRYL 296N | Amber clear liquid | | 35 - 36 | 200 - 600 | 140 - 150 | 15 - 20 | Acrylic dispersion designed for high pigment loading with lowest viscosity and stability |
| SPCRYL 396N | Amber clear liquid | | 30 - 32 | 100 - 500 | 200 - 220 | 85 - 95 | Acrylic dispersion designed for high pigment loading with lowest viscosity and stability |
| SPCRYL 496N | Yellow clear liquid | | 34 - 35 | 300 - 800 | 200 - 230 | 55 - 65 | Acrylic dispersion designed for high pigment loading with lowest viscosity and stability |

