



RayCryl 4155L Technical Bulletin
All Acrylic Emulsion Polymer

RayCryl 4155L is an all acrylic emulsion polymer for industrial interior wood finishes. Specifically designed with a low surfactant level, RayCryl 4155L exhibits excellent water and chemical resistance. Coatings formulated with RayCryl 4155L may pass KCMA testing.

Suggested Uses

- Industrial wood sealers
- Industrial wood finishes

Key Features

- Excellent chemical resistance
- Outstanding water resistance
- High gloss

RayCryl 4155L Typical Physical Properties

Polymer type	Acrylic emulsion polymer
Weight solids	47 - 49%
Viscosity (Brookfield Model RVT)	100 – 500 cps, #3/100 rpm
pH	8.5 – 9.5
Tg (MDSC)	43°C
MFFT (ASTM D-2354)	42°C
Particle Size (Mean)	0.08 microns
Surfactant Charge	Anionic
Weight per Gallon	8.74 lbs/gal
Bulking Value	0.1144 gal/lb
Freeze Thaw Stability	Do Not Freeze

For 40 years, Specialty Polymers has been developing state of the art resins for the paint and coatings industry. With more than 250 products to choose from, Specialty Polymers has the right polymer to meet your needs.

Suggested Formulations

RayCryl 4155L – Clear High Gloss

Raw Materials	Weight (lbs)	Volume (gal)	Supplier
Water	116.62	14.00	
Kathon LX 1.5	0.50	0.05	Dow Chemical
Dowanol EB	41.31	5.50	Dow Chemical
Dowanol DB	27.79	3.50	Dow Chemical
Glycol ether PM	26.92	3.50	Dow Chemical
Byk 024	0.75	0.09	Byk Chemie
RayCryl 4155L	550.00	62.93	Specialty Polymers, Inc.
Michem emulsion 39235	60.00	7.20	Michelman
Zonyl FSP	0.50	0.05	Dupont
Water	16.86	2.03	
Optiflo H3300	10.00	1.15	Southern Clay Product
Total	851.25	100.00	

Typical Physical Properties

RayCryl 4155L – Clear High Gloss

Weight per gallon, lbs/gal	8.5	Gloss @ 60°	88
Weight solids, %	33.9	pH	8.0
Volume solids, %	31.74	Coating VOC, g/L	275

Suggested Coalescing Solvents

15-30% DPM, DB, EB

IMPORTANT INFORMATION

If any product is defective in workmanship or materials, Specialty Polymers, Inc. will replace the product. The information contained in this Technical Bulletin is intended to be a guideline. It is offered in good faith, but without guarantee. We recommend users of the product perform their own testing to determine the suitability of the product in their application.