



RayRez 66 Technical Bulletin

Styrene Acrylic Emulsion

RayRez 66 is a styrene-acrylic emulsion with excellent block resistance. Coatings formulated with RayRez 66 have outstanding adhesion and gloss. Designed to have a low cosolvent demand, industrial coatings formulated with RayRez 66 meet the strict VOC requirements needed in many of today's applications. When blended with water reducible alkyds, coatings performance is enhanced and VOCs are reduced.

Suggested Uses

- Industrial topcoats and primers for wood and metal
- Blending vehicle for water reducible alkyds
- Concrete floor paints

Key Features

- Excellent block resistance
- Outstanding adhesion and gloss
- Lowers VOCs and provides faster dry time in water reducible alkyds

RayRez 66 Typical Physical Properties

Polymer type	Styrene acrylic emulsion
Weight solids	45 – 47 %
Viscosity (Brookfield Model RVT)	25 – 300 cps, #2/100 rpm
pH	9.0 – 9.5
MFFT (ASTM D-2354)	30°C
Tg (MDSC)	41°C
Particle Size (Mean)	0.07 microns
Surfactant Charge	Anionic
Weight per Gallon	8.78 lbs/gal
Bulking Value	0.1139 gal/lb
Freeze Thaw Stability	Passes 5 cycles

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

RayRez 66 – White Gloss Water Reducible Alkyd

Raw Materials	Weight (lbs)	Volume (gal)	Supplier
Duramac 74-7495	195.19	23.10	Hexion Specialty Chemicals
Ammonia	9.36	1.24	
R-900 TiO ₂	265.45	8.11	DuPont
Byk 020	1.00	0.09	Byk Chemie
Duramac 74-7495	89.31	8.97	Hexion Specialty Chemicals
Ammonia	3.96	0.53	
Cobalt Hydro-Cure II	5.53	0.72	OMG
Active 8	0.91	0.03	RT Vanderbilt
Water	406.35	49.63	
RayRez 66	72.16	7.55	Specialty Polymers
Total	1,049.04	100.00	

Typical Physical Properties RayRez 66 – White Gloss Water Reducible Alkyd

Weight per gallon, lbs/gal	10.5	pH	9.5
Weight solids, %	48	60 degree gloss	90
Coating VOC, g/L	<250	Reverse impact, inch-lb	<5
Viscosity, #5 @100 rpm, cps	1700	Direct impact, inch-lb	20

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.