



RayCryl 2007 Technical Bulletin

All-acrylic Universal Primer

RayCryl 2007 is an all-acrylic emulsion designed for interior and exterior primers. It has excellent adhesion to a wide range of substrates, including aged alkyd. Coatings formulated with RayCryl 2007 have outstanding household stain blocking characteristics.

Suggested Uses

- Interior stain-blocking sealers
- Interior and exterior primers

Key Features

- Excellent household stain blocking
- Excellent adhesion to wide range of substrates
- Excellent water resistance
- Excellent enamel holdout
- Provides efflorescence resistance

RayCryl 2007 Typical Physical Properties

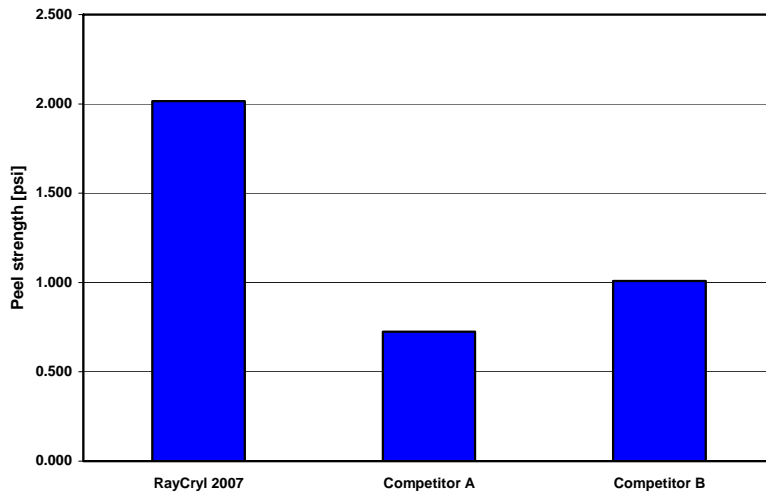
Polymer type	Acrylic emulsion polymer
Weight solids	45 – 47 %
Viscosity (Brookfield Model RVT)	400 – 1300 cps, #2/100 rpm
pH	8.5 – 9.2
Tg (MDSC)	15°C
MFFT (ASTM D-235)	<0°C
Particle Size (Mean)	0.07 microns
Surfactant Charge	Anionic
Weight per Gallon	8.72 lbs/gal
Bulking Value	0.1147 gal/lb
Freeze Thaw 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.

Comparative Testing

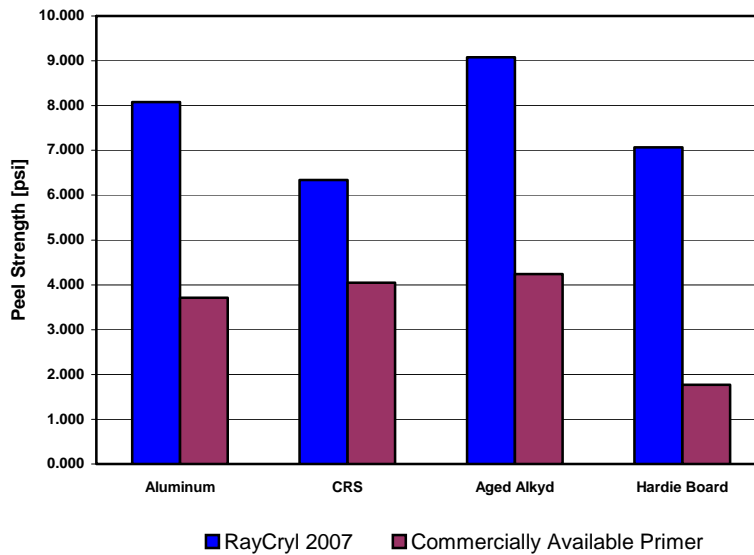
RayCryl 2007 versus the competition

Adhesion Comparison
ASTM D903
100 g/L, 2 weeks dry, Aged alkyd

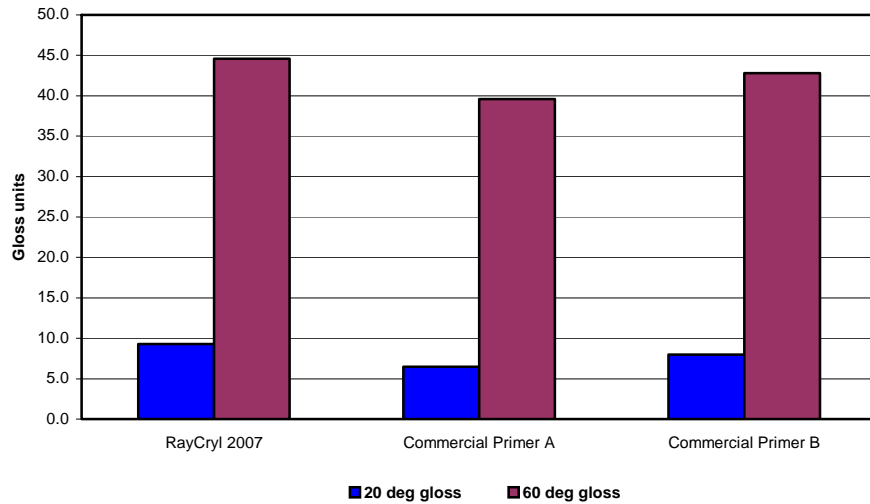


Adhesion Comparison To Different Substrates

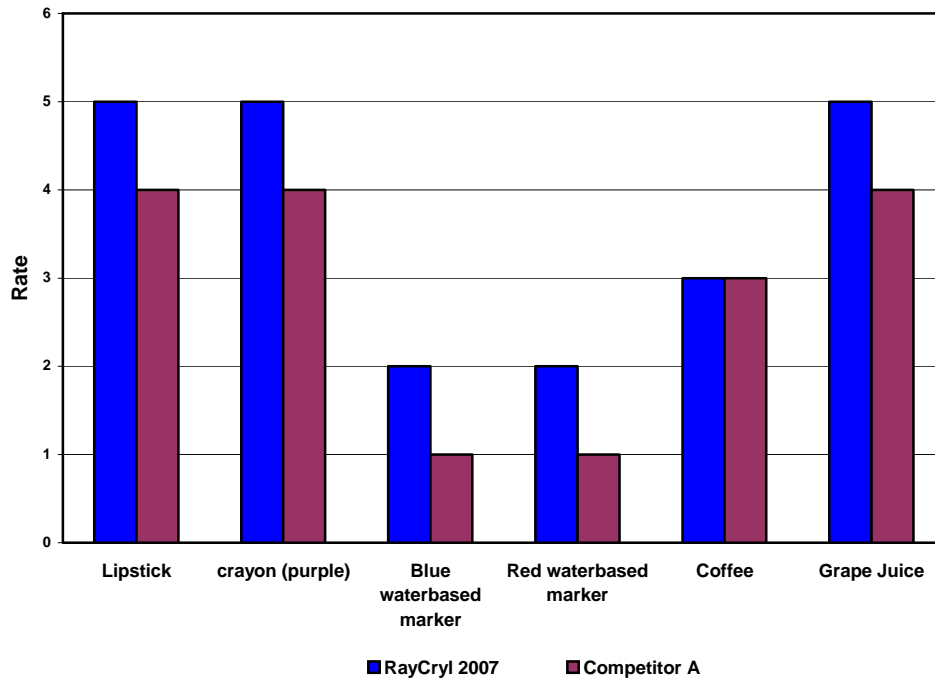
ASTM D903
Dry adhesion, 2-weeks cure



Enamel Hold Out
Topcoated with a Commercially Available Semi-gloss



Household Stain Resistance
Universal Primer 100 g/L VOC
Primer @ 6 mils Bird Bar application
Rate 5=best; 0=worst



Suggested Formulations

RayCryl 2007 – Universal Primer

Raw Materials	Weight (lbs)	Volume (gal)	Supplier
Water	99.96	12.00	
Natrosol 250 MHR	1.50	0.14	Hercules
Ammonia	0.50	0.07	
Propylene glycol	17.22	2.00	Eastman
Tamol 681	7.50	0.83	Rohm and Haas
Surfynol 104PG	3.00	0.37	Air Products
Byk 022	2.00	0.24	Byk Chemie
Tioxide TR93	150.00	4.50	Huntsman
Snowflake PE	100.00	4.44	Imerys
Water	33.32	4.00	
RayCryl 2007	568.00	65.14	Specialty Polymers, Inc.
Drewplus L-475	1.00	0.13	Ashland, Drew Division
Texanol	13.00	1.65	Eastman
Halox Flash X-150	2.00	0.22	Halox
Mergal K-12N	2.00	0.23	Troy Chemical
Ammonia	0.75	0.10	
Water	23.99	2.88	
Acrysol RM-2020NPR	9.00	1.06	Rohm and Haas
Total	1,034.74	100.00	

Typical Physical Properties

RayCryl 2007 – Universal Primer

Weight per gallon, lbs/gal	10.3	Viscosity, KU	100
Weight solids, %	50.4	pH	8.6
Volume solids, %	38.1	Low Tem Cure @ 40°F	Pass
Coatings VOC, g/L	<100		

Suggested Coalescing Solvent

5-10% Texanol

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.