

Joncryl® 2561

Product Description	Joncryl 2561 is a Rheology Controlled (RC) acrylic emulsion for external high gloss coating applications.
Key Features & Benefits	<ul style="list-style-type: none">- <i>Alkyd-like flow and film build</i>- <i>Low temperature film formation</i>- <i>Broad adhesion performance with excellent block resistance</i>- <i>Excellent modifier vehicle</i>
Chemical Composition	RC acrylic emulsion

Properties

Typical Properties	Appearance		translucent emulsion
	Solids	% by wt	48.5
	Solids	% by volume	45.6
	pH		8.0
	Viscosity	cps	750
	Density	lbs/gal	8.8
	MFFT	°C	< 5
	Tg	°C	-11
	Freeze-thaw stable		Yes

* These typical values should not be interpreted as specifications.

Applications

Joncryl 2561 is a unique acrylic latex developed for interior and exterior high gloss architectural coatings. As an RC emulsion, it provides alkyd-like rheology, gloss, and pigment dispersing capabilities, while maintaining the excellent exterior durability and resistance properties of acrylics.

Joncryl 2561 is recommended for applications such as:

- Interior/exterior waterborne wood coatings for furniture or millwork applications
- General industrial paints needing broad adhesion and block resistance

Formulation Guidelines

Coalescing solvents – Exterior durability, resistance properties, and gloss development are dependent on the proper level and selection of coalescent. For optimum properties, a coalescent level of 5 – 8% on polymer solids is recommended for Joncryl 2561. Either diethylene glycol mono butyl ether or Texanol¹ is suggested.

Rheology modification – The balance between KU and ICI viscosity is dictated by the desired pickup on the paint brush and application properties. A particular KU and ICI level can be reached through the proper selection of rheology modifiers, polymer solids, co-solvents, and colorants. In paints containing Joncryl 2561, polyurethane modifiers provide a good balance of high and low shear viscosity while maintaining a high level of paint performance.

Dispersants – Joncryl 2561 provides the opportunity to grind in the emulsion without surfactants or dispersants due to its excellent shear stability, reduced foaming, and excellent pigment wetting characteristics. This reduces the level of water-sensitive surfactants and dispersants, thus allowing for improved early water resistance properties. As an alternative, a careful selection of dispersants and surfactants is required to achieve optimum gloss levels and maintain resistance properties.

Titanium dioxide – The very high gloss potential of Joncryl 2561 provides wider formulating flexibility than with conventional acrylics. A high gloss can be developed with a wider selection of titanium dioxide gloss grades.

VOC compliance –Due to the excellent film forming capability of Joncryl 2561 and low MFFT, optimized formulations can be developed at extremely low VOC levels.

Starting Point Formulation

The following starting point formulations are recommended for an initial evaluation of Joncryl 2561. Additional optimization of the formulations may be required to achieve desired results for specific applications.

Joncryl® 2561 High Gloss Enamel, Formulation #288-BSB (Polymer grind)

Grind	Pounds	Gallons
Joncryl® 2561	125.0	14.20
Propylene glycol	34.6	4.00
Mergal ¹ 586	0.5	0.05
Ammonia	2.0	0.27
FoamStar® SI 2292	2.0	0.27
Rheovis® PU 1250 EC	1.0	0.11
Ti-Pure ² R-706	250.0	7.51
Grind at high speed to Hegman 7		
Letdown		
Joncryl® 2561	488.4	55.50
FoamStar® SI 2281	4.0	0.48
Rheovis® PU 1250 EC	8.0	0.09
Rheovis® PU 1214 EC	9.0	1.00
Water	110.0	13.21
Texanol ³	15.0	1.90
Dipropylene Glycol Monomethyl Ether	5.0	0.63
Wax Emulsion	20.0	2.42
TOTAL	1074.5	102.46

¹Mergal is a registered trademark of Troy Corporation

²Ti-Pure is a trademark of The Chemours Company.

³Texanol is a trademark of Eastman Chemical Company.

Formulation Attributes

Solids	53.0% by weight
Solids	40.9% by volume
ICI viscosity	1.5 poise
PVC	17.9%
Density	10.5 lbs/gal
VOC (coating)	147.0 g/l, 1.23 lbs/gal

Performance Properties

The following table details the performance of gloss paints made with Joncryl 2561. A very high gloss can be achieved with this acrylic latex. In addition, test results demonstrate the excellent durability and resistance properties that can be achieved. This balance provides the needed flexibility for formulating unique high gloss paints.

Appearance/Application

PVC	17.9%
Initial viscosity	96.0 KU
Heat-aged viscosity (7 days at 120°F)	102.0 KU
ICI (build)	1.5 poise
Gloss at 20°, 60°	66.0, 87.0

Performance

Image clarity	Excellent
Early blister resistance	Excellent
Adhesion to aged alkyd	Excellent
Wet adhesion:	Thumb twist, Pearl resistance
Block resistance (2psi, 24hr dry):	Room temp., 120°F
	Excellent, Good
	Excellent, Good

Safety

General

The usual safety precautions when handling chemicals must be observed. These include the measures described in Federal, State and Local health and safety regulations, thorough ventilation of the workplace, good skin care and wearing of protective goggles.

Safety Data Sheet

All safety information is provided in the Safety Data Sheet for Joncryl 2561.

Storage

Please refer to the "Handling and Storage of polymer dispersions" brochure.

Important

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BASF Corporation

Dispersions and Resins
11501 Steele Creek Road
Charlotte, North Carolina 28273
Phone: (800) 251 – 0612
Email: CustCare-Charlotte@basf.com
www.basf.us/dpsolutions