

Joncryl® 1616

Product Description	Joncryl 1616 is a high gloss, hard film forming Rheology Controlled (RC) acrylic emulsion for printing ink and overprint varnish applications.
Key Features & Benefits	<ul style="list-style-type: none">- High gloss and holdout- Excellent resolubility- Very good ink viscosity stability- Lower foaming
Chemical Composition	RC acrylic emulsion

Properties

Typical Properties	Appearance	translucent emulsion
	Molecular weight (Mw)	> 200,000
	Non-volatile	% 42.5
	pH	8.5
	Acid number (NV)	140
	Viscosity at 25°C	cps 800
	Density at 25°C	g/cm ³ 1.05
	MFFT	°C 15
	Tg	°C 40
	Freeze-thaw stable	Yes
	Total VOC	% wt 1.2

These typical values should not be interpreted as specifications.

Applications

Joncryl 1616 is a high gloss, hard film forming RC acrylic emulsion designed as a letdown vehicle in inks for paper and paperboard applications. This emulsion offers excellent transfer and printability with low foaming in both flexographic and gravure inks. Strong, high gloss inks with very good viscosity stability can be formulated with Joncryl 1616.

Joncryl 1616 can also be used to provide film formation in overprint varnish formulations.

Joncryl 1616 is recommended for applications such as:

- Printing inks for flexographic or gravure applications
- Overprint varnishes for commercial, publication, or packaging applications

Starting Point Formulations

The following starting point formulations are recommended for initial evaluations of Joncryl 1616. Further optimization of the formulations will be required to achieve desired results for specific applications.

Gravure Ink Formulation	
Pigment Dispersion	35.0
Joncryl 1616	45.0
Joncryl Wax 26	5.0
IPA	3.0
Defoamer	0.2
Water	11.8
TOTAL	100.0

Overprint Varnish Formulation	
Joncryl 1616	88.5
Joncryl Wax 26	3.8
Defoamer	0.1
Water	7.6
TOTAL	100.0

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 1616.

Storage

Please refer to the “Handling and Storage of Polymer Dispersions” brochure.

Important

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