

Joncryl® 541

Product Description	Joncryl 541 is a self-crosslinking acrylic emulsion, with improved resolubility and resistance, for surface print applications on film and foil.
Key Features & Benefits	<ul style="list-style-type: none">- Excellent Press Resolubility- Great Chemical Resistance Properties- Improved Gloss- Adhesion to Multiple Film Substrates incl. BOPP, PE etc.- Swiss List Compliant
Chemical Composition	Self-crosslinking styrene acrylic emulsion

Properties

Typical Properties	Appearance		Milky white emulsion
	Non-volatile at 145°C (2g, 60 minutes)	%	45.0
	pH at 25°C		8.3
	Viscosity at 25°C (Brookfield #2LV, 60rpm, 30 seconds)	cps	100
	Density at 25°C	g/cm ³ (lbs/gal)	1.04 (8.70)
	MFFT	°C	~ 19 – 21
	Freeze-thaw stable		No

* These typical values should not be interpreted as specifications.

Application

Joncryl 541 is a self-crosslinking RC acrylic emulsion that has great resistance and resolubility, which make it suitable for use in surface print inks (flexographic and gravure applications) for labels and flexible packaging.

Resolubility and resistance are key properties for surface print inks. The balance between these properties has been most challenging in case of water-based systems. Joncryl 541 raises the benchmark for water-based surface print binders. Joncryl 541, with its unique polymer architecture and innovative crosslinking mechanism, provides best in class resolubility and improved resistance properties while helping keep costs down. The improved resolubility reduces the need for clean-up of anilox rolls and risk of dirty prints, thereby improving quality and productivity.

Typical surface print applications include labels, shopping bags and flexible packaging such as dry foods, candy wrappers, outdoor bags etc.

Joncryl 541 is Swiss List compliant. Contact BASF's product regulatory group for further information.

The following starting point formulation is recommended for initial evaluations. Additional optimization may be required to achieve desired results for specific applications.

Below starting point formulation incorporates resin base pigment dispersion.

Zahn EZ #3 Viscosity for below formulation is 17.5

	%
Pigment Dispersion	40.0
Joncryl 541	54.9
Joncryl Wax 28	4.0
FoamStar® SI 2280	0.1
Hydropalat® WE 3650	1.0
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 541.

Storage

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

Important

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