

Printing & Packaging

Functional Packaging Coatings

Technical Data Sheet

Joncryl[®] 538-A



Product Description	Joncryl [®] 538-A is an alcohol-resistant, Rheology Controlled (RC) acrylic emulsion for printing ink, overprint varnish applications, and functional packaging coatings.
Key Features & Benefits	- Good balance of alcohol resistance and resolubility - Resistance to plasticizer migration
Chemical Composition	RC acrylic emulsion

Properties

Typical Properties	Appearance	translucent emulsion
	Non-volatile at 145°C (2g, 30 minutes)	~ 46.0%
	pH at 25°C	~ 9.6
	Viscosity at 25°C (Brookfield #2LV, 60 rpm, 30 seconds)	~ 300 cps
	Molecular weight (Mw)	> 200,000
	Acid number (NV)	53
	Density at 25°C	1.04 g/cm ³
	MFFT	65°C
	Tg	64°C
	Freeze-thaw stable	Yes
	Total VOC	1.0% wt

These typical values should not be interpreted as specifications.

Applications

Joncryl[®] 538-A is a non-film forming, RC acrylic polymer that can be coalesced to form an alcohol- and chemical-resistant film for inks and coatings. In addition, the unique properties of this polymer include outstanding gloss and adhesion to flexible substrates such as vinyl and polystyrene when formulated with the proper coalescing solvents. The hardness of this polymer allows it to resist plasticizer migration on printed vinyl.

Joncryl[®] 538-A is recommended for applications such as:

- Printing inks
- Overprint varnishes for commercial, publication, or packaging applications
- Functional packaging coatings for heat seal applications

Processing

In addition to surfactant-based pigment dispersions, resinated pigment dispersions (conventional dispersions utilizing acrylic resins) may also be used in inks that are letdown with Joncryl[®] 538-A. However, the alkali resistance will be affected.

The addition of a small amount of amine such as monoethanolamine (MEA) or dimethylethanolamine (DMEA) will increase resolubility on the press and promote release from the anilox cells, but will also have an impact on the final alcohol and water resistance.

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® 538-A.

Important

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