BASF
The Chemical Company

Joncryl® LMV 7031

Key features and benefits

- low maintenance
- pH-neutral
- excellent resolubility
- good water resistance
- good adhesion to film and foil substrates

a low maintenance vehicle, pH-neutral, film-forming acrylic emulsion for use in water-based inks for film substrates

General information

Typical physical characteristics (not to be considered specifications)

appearance	translucent emulsion
non-volatile	47.5 %
molecular weight (wt. av.)	>200,000
viscosity at 25 °C (77 °F) (Brookfield)	1,500 mPa.s
pH	7.7
acid value (on solids)	57
density at 25 °C (77 °F)	1.04 g/cm^3
minimum film-forming temperature	-1 °C (30 °F)
glass transition temperature Tg (DSC)	-9 °C (16 °F)
VOC weight (by GC analysis)	0.6 %
freeze/thaw-stable	yes

P&P JLMV7031e/23-09-2008/B7-9
supersedes P&P JLMV7031e/01-08-2008/B7-9

Applications

Joncryl® LMV 7031 emulsion is a low maintenance, neutral pH, Rheology Controled (RC) acrylic emulsion for use in inks for film and foil applications. It has good water resistance and adhesion to polyethlylene, polypropylene and other non-porous substrates.

Joncryl® LMV 7031 emulsion can be used to formulate high performance inks that do not rely on press-side modifications of pH with ammonium hydroxide or organic amines.

Typical formulations using Joncryl® LMV 7031

high-quality press-stable film ink

35.0	parts	Joncryl® LMV 7085 pigment concentrate*
55.5	parts	Joncryl® LMV 7031
1.0	parts	wetting agent
3.0	parts	isopropanol
5.0	parts	PE wax emulsion*
0.5	parts	defoamer
100.0	parts	

In order to obtain the maximum benefits of the LMV technology it is preferable to use a pigment concentrate based on Joncryl® LMV 7085.

high-quality pH-neutral pigment concentrates

27.3	parts	Joncryl® LMV 7085
0.5	parts	defoamer
27.2	parts	water
45.0	parts	organic pigment
100.0	parts	

* BASF also offers a full range of wax emulsions and dispersion resins.

For further detailed application information please contact our Technical Support Department.

Safety

When handling these products, advice and information given in the safety data sheet must be complied with. Further, protective and workplace hygiene measures adequate for handling chemicals must be observed.

Note

The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights, etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. It is the responsibility of the recipient of our products to ensure that any proprietary rights and existing laws and legislation are observed.

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