

JONCRYL[®] HPE 2157

Key features and benefits

- extremely fast drying (approx. 25% faster compared to standard high Tg emulsions)
- excellent printability
- excellent resolubility
- excellent compatability
- ultra low VOC
- exhibits low curling

a high solids extremely fast drying emulsion for water-based inks on paper and paperboard

General information

Typical physical characteristics (not to be considered specifications)

appearance	opaque emulsion
solids by weight	48%
molecular weight (wt. av.)	>200,000
viscosity at 25 °C (77 °F) (Brookfield)	125 mPa.s
pH	8.3
acid value (solids)	36
density at 25 °C (77 °F)	1.05 g/cm ³
minimum film-forming temperature	>85 °C (>185 °F)
glass transition temperature Tg (DSC)	105 °C (221 °F)
VOC weight (by GC analysis)	<0.1%
freeze/thaw-stable	yes

Applications

JONCRYL® HPE 2157 is a non-film-forming letdown emulsion that provides very fast drying and excellent printability characteristics in both flexographic and gravure inks for high speed printing of (coated) paper and paperboard applications. Exhibits low curling upon drying.

Additionally JONCRYL® HPE 2157 is ultra low VOC (less than 0.1%) making it an ideal building block for inks used for demanding applications which cannot tolerate product contamination as a result of retained solvent in the printed matter.

JONCRYL® HPE 2157 is compatible with a broad variety of other water-based vehicles and pigment dispersions.

Typical formulations using JONCRYL® ECO 2157

flexographic printing ink for paper and paperboard
providing very fast drying, excellent resolubility and printability

36.6 parts	pigment concentrate*
56.0 parts	JONCRYL® HPE 2157
0.8 parts	JONCRYL® HPE 142
0.1 parts	ammonia (25%)
5.0 parts	PE wax emulsion*
0.5 parts	defoamer
100.0 parts	

gravure printing ink for paper and paperboard
providing fast drying, excellent printability and high gloss

35.5 parts	pigment concentrate*
61.6 parts	JONCRYL® HPE 2157
0.5 parts	defoamer
2.6 parts	water
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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