BASF
The Chemical Company

JONCRYL® WAX 14

high efficiency polyethylene wax dispersion

Key features and benefits

provides:
- highest rub resistance
- lowest formulated cost
- ultra low vocs
- high slip

General information

Typical physical characteristics (not to be considered specifications)

appearance	opaque emulsion
non-volatile	40.0%
viscosity at 25 °C (77 °F) (Brookfield)	1,000 mPa.s
pH	8.0
density at 25 °C (77 °F)	0.92 g/cm^3
average particle size	9 micron
softening point	110 °C (230 °F)
freeze/thaw-stable	no

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Applications

JONCRYL® WAX 14 is a new polyethylene wax dispersion designed to impart outstanding rub and scuff resistance to water-based ink formulations.

Its unique composition results in very high rub and scuff resistance at low use levels.

For this reason JONCRYL® WAX 14 is extremely cost effective.

Performance

JONCRYL® WAX 14 is supplied as an easy to use, high solids dispersion. It has been shown to provide outstanding rub resistance at very low usage levels. Use levels as low as 1.3% (0.5% wax solids) have been found to be effective in many instances. The following chart illustrates a comparison of JONCRYL® WAX 14 with some typical wax products used in various formulations.

As with many wax dispersions, it is recommended to mix well before using JONCRYL® WAX 14 as wax solids tend to migrate to the surface during storage.

The chart below summarizes the results for a variety of formula types.

	substrate	JONCRYL® WAX 14 % used (wet)	JONCRYL® WAX 14 % used (dry)	# rub cycles passed	competitive waxes	% used (wet)	% used (dry)	# rub cycles passed
inks								
label/packaging	coated paper	1.3	0.5	500+	PE emulsion or dispension PE/carnauba, PTFE powder	5.10 –	2.5 2.5	400 500+
film printing	PE film	1.3	0.5	300	PE emulsion or dispension	5.10	2.5	100
figh quality corrugated	liner board	1.3 2.5	0.5 1.5	300 500	PE powder, PTFE powder	–	2.5	50
overprints								
folding carton	coated board	1.3	0.5	500	PE emulsions	10	2.5	300

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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