

Joncryn[®] WAX 4

general a high efficiency polyethylene wax dispersion

key features & benefits

- provides highest rub resistance
- provides lowest formulated cost
- ultra-low VOC's
- no foam

chemical nature wax dispersion

Properties

appearance opaque emulsion

typical characteristics

(should not be interpreted as specifications)

non-volatile	40 %
Brookfield viscosity at 25 °C	1,000 mPa.s
pH	9.0
density at 25 °C	0.92 g/cm ³
average particle size	4 micron
softening point	132 °C
freeze/thaw-stable	no

Application

Joncryn[®] WAX 4 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 Joncryn[®] WAX 4 is extremely effective.

Performance

Joncryl® WAX 4 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 4 with some typical wax products used in various formulations. As with many wax dispersions, it is recommended to mix well before using Joncryl® WAX 4 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 4 % used (wet)	Joncryl® WAX 4 % 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 dispersion PE/carnauba, PTFE powder	5.10 -	2.5 2.5	400 500+
film-printing	PE film	1.3	0.5	300	PE emulsion or dispersion	5.10	2.5	100
high 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

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

Joncryl® WAX 4 TDS EN (08-2019)

Safety

When handling this product, please comply with the advice and information given in the safety data sheet and observe protective and workplace hygiene measures adequate for handling chemicals.

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. The agreed contractual quality of the product results exclusively from the statements made in the product specification. It is the responsibility of the recipient of our product to ensure that any proprietary rights and existing laws and legislation are observed.

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