

Joncryl[®] FLX 5000

Key features and benefits

- good dry and wet rub resistance
- excellent resolubility and printability
- excellent heat-seal resistance
- excellent blocking resistance

a self-crosslinking acrylic emulsion with excellent resolubility for water-based inks used for surface printing on film substrates

General information

Typical physical characteristics (not to be considered specifications)

appearance	semi-translucent emulsion
non-volatile	42 %
molecular weight (wt. av.)	> 200,000
viscosity at 25 °C (77 °F) (Brookfield)	1,000 mPa.s
pH	8.9
acid value (on solids)	100
density at 25 °C (77 °F)	1.05 g/cm ³
minimum film-forming temperature	<5 °C (41 °F)
VOC (by GC analysis)	<0.5 %
freeze/thaw-stable	no

Applications

The products from the Joncryl® FLX Line are developed for use in flexible packaging applications and have an excellent resistance/resolubility balance. This balance makes it possible to achieve high quality on surface print jobs using water-based ink formulations.

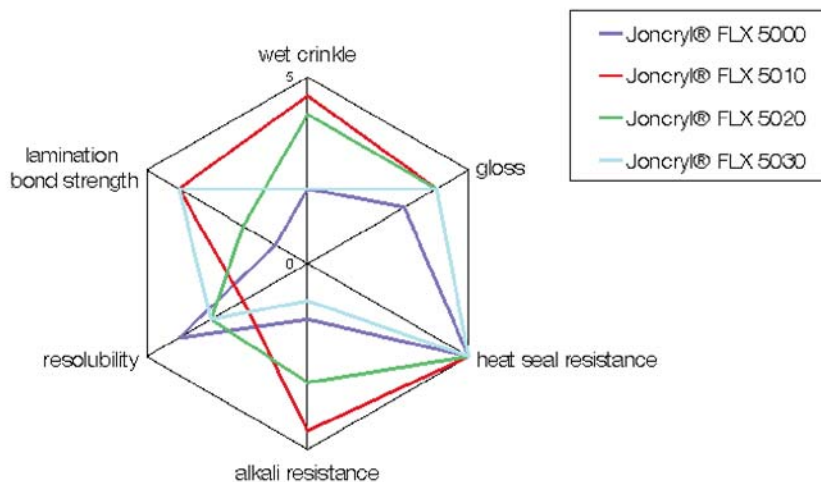
The Joncryl® FLX Line proves that it is possible to combine good resistance with very good printability in water-based inks, making the conversion to water-based inks for medium-duty film applications a cost-effective reality.

Joncryl® FLX 5000 with its good resolubility is very suitable for general surface print jobs on PE and PP with lower demands on resistance; e.g. dry food packaging and boutique bags.

Joncryl® FLX5010 is providing higher resistance properties and therefore suitable for more demanding segments. In adhesion lamination Joncryl® FLX 5010 based inks give good bond strength to different PE and PP lamination structures.

Resolubility and printability properties of Joncryl® FLX 5020 are improved over Joncryl® FLX 5010 while maintaining resistance properties at a level needed for the higher demand segments. Target segments that will benefit from these improvements are the same segments as for Joncryl® FLX 5010 being heavy-duty, bread bags and deep-freeze bags.

Joncryl® FLX 5030 is developed for water-based lamination inks. A white ink based on Joncryl® FLX 5030 shows a very good leveling and lay. Reverse printed on OPP and laminated with an adhesive it results in laminate structure suitable for the medium-duty laminate segment like bakery, confectionery and snack foods packaging.



Typical formulation using Joncryl® FLX 5000

medium-duty film ink
providing good resistance and resolubility

47.7 parts	Joncryl® FLX 5000
46.0 parts	pigment concentrate*
1.0 parts	Tego® ¹ Wet 500
0.6 parts	BYK® ² 094
0.2 parts	BYK® ² 024
1.0 parts	Joncryl® Wax 4
0.5 parts	Tego® ¹ Glide 482
3.0 parts	Dow® ³ Corning 84
100.0 parts	

* BASF also offers a full range of dispersion resins.

For further detailed application information please contact our Technical Service 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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