

Joncryl[®] 586

General	a styrene-acrylic resin for use in alkali resistant water-based inks and overprint varnishes
Key features & benefits	alkali resistance excellent water and wet block resistance good resolubility
Chemical nature	styrene-acrylic resin

Properties

Appearance	clear solid resin
Typical characteristics <i>(should not be interpreted as specifications)</i>	non-volatile 97 % molecular weight (wt. av.) 4,500 acid value (on solids) 110 density at 25 °C 1.10 g/cm ³ glass transition temperature T _g (DSC) 66 °C

Application

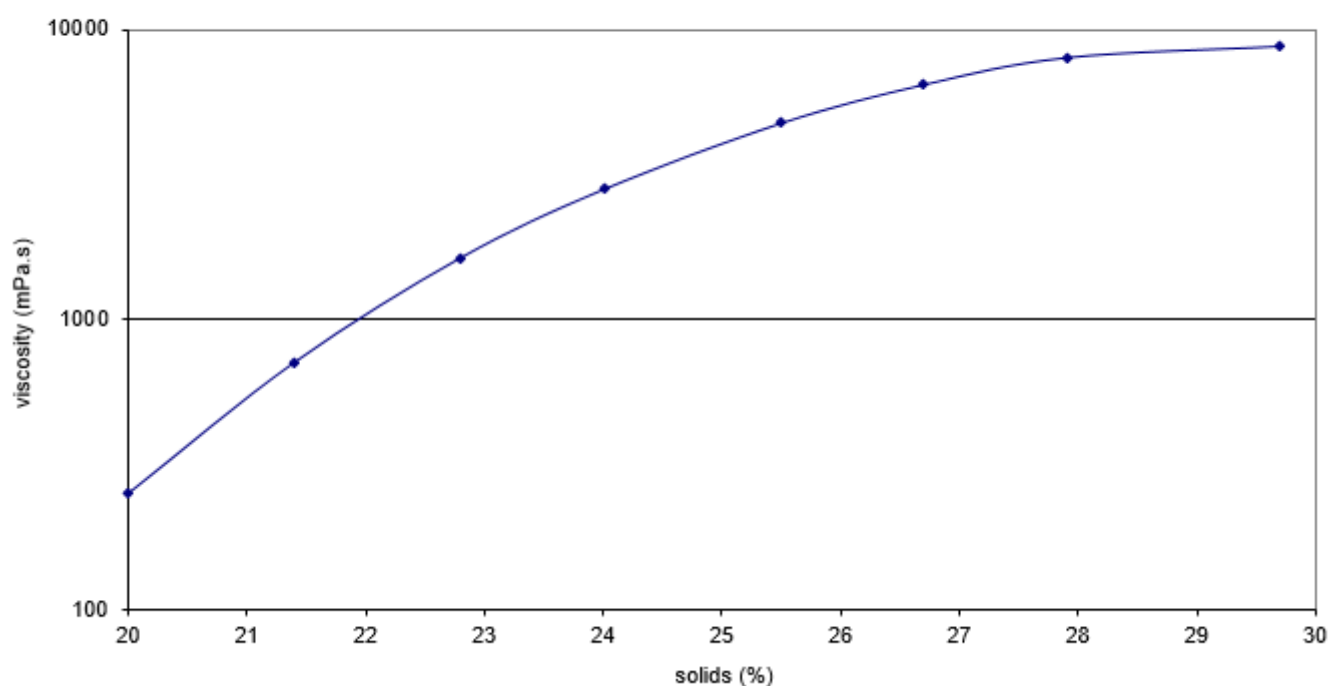
Joncryl[®] 586 has been designed to improve alkali resistance of overprint lacquers and inks, whilst maintaining good transfer and resolubility. When used in conjunction with water resistant emulsions, the resultant inks and lacquers provide good water and wet block resistance.

Typical solution of Joncryl® 586 in ammonia

25.0 parts	Joncryl® 586
15.0 parts	n-Propanol
3.6 parts	ammonia
56.4 parts	water
100.0 parts	
pH	9.1
Viscosity mPa.s (25°C Brookfield)	2,900

Resin cuts may be produced at various viscosities by adjusting the solids level and the pH and solvent content. The following graph provides a guideline to the expected results using different solids and various pH levels.

Solids-viscosity profile Joncryl® 586 ammonia neutralized at pH 9.1
(15 % n-propanol used as co-solvent)



Typical solution of Joncryl® 586 in DMEA

25.0 parts	Joncryl® 586
3.5 parts	DMEA
71.5 parts	water
100.0 parts	
pH	8.5
Viscosity mPa.s (25°C Brookfield)	< 100

Typical formulations using Joncryl® 586

alkali/water resistant overprint varnish

30.0 parts	Joncryl® 586 solution*
54.0 parts	Joncryl® 537-E
4.0 parts	DEGBE
5.0 parts	PE wax emulsion**
0.5 parts	defoamer
6.5 parts	water
100.0 parts	

alkali resistant pigment concentrate

40.0 parts	Joncryl® 586 solution*
40.0 parts	organic pigment
0.5 parts	defoamer
19.5 parts	water
100.0 parts	

alkali/water resistant ink

35.0 parts	alkali resistant pigment concentrate** based on Joncryl® 586
15.0 parts	Joncryl® 586 solution*
37.0 parts	Joncryl® 537-E
2.5 parts	DEGBE
5.0 parts	PE wax emulsion*
0.5 parts	defoamer
5.0 parts	water
100.0 parts	

* DMEA neutralized

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

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

Joncryl® 568 TDS EN (11-2019)

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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