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
(should not be interpreted as specifications)

non-volatile	97 %
molecular weight (wt. av.)	4,500
acid value (on solids)	110
density at 25 °C	1.10 g/cm³
glass transition temperature Tg (DSC)	66 °C

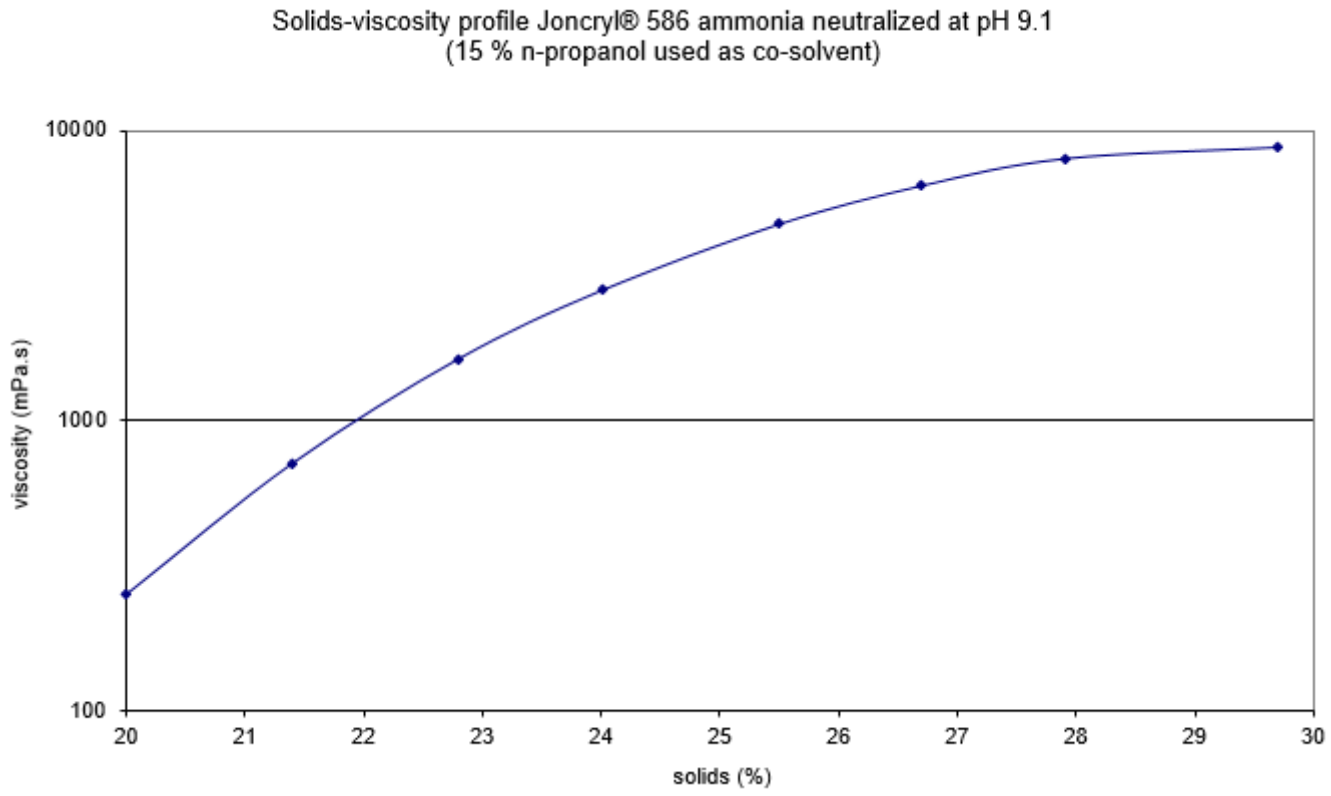
Application

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.



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.

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