

Industrial Coatings

Technical Data Sheet

Joncryl® 611



Product Description	Joncryl® 611 is a solid flake resin used for modification of solventborne alkyd and nitrocellulose coatings.
Key Features & Benefits	<ul style="list-style-type: none">- <i>Lowers viscosity/VOC</i>- <i>Broad resin compatibility</i>- <i>Imparts snap-dry characteristics</i>
Chemical Composition	Acrylic resin

Properties

Typical Properties	Appearance	clear flake
	Acid number (0.3g in 50:50 3A alcohol:acetone)	~ 58.0
	Molecular weight (Mw)	~ 9,000
	Solids	99.8% by wt
	Viscosity (in xylene at 40% solids)	190 cps
	Density	9.2 lbs/gal
	Softening point	112°C
	Tg	50°C
	Freeze-thaw stable	Yes

These typical values should not be interpreted as specifications.

Applications

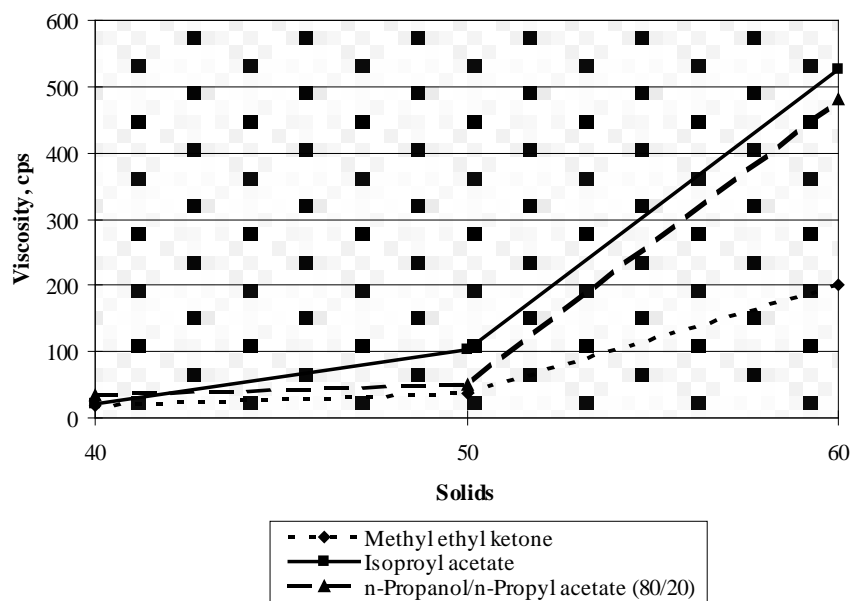
Joncryl® 611 makes a low viscosity acrylic resin solution that can be used to lower the viscosity of solution-based air drying alkyds. As a modifier in an alkyd, Joncryl® 611 imparts snap-dry, lacquer dry characteristics and contributes acrylic properties to the finished coating.

In addition, Joncryl® 611 has shown excellent compatibility with a variety of other resins, including nitrocellulose. Joncryl® 611 in solution reduces solvent demand in nitrocellulose coatings.

Joncryl® 611 is recommended for applications such as:

- Pigment dispersion applications
- Enhance lacquer dry characteristics for air drying alkyds
- Reduce solvent demand in nitrocellulose coatings

Joncryl® 611 is soluble in ketone, ester, and aromatic solvent systems as shown in the graph below:



Joncryl® 611 Solvent Solubility

Solvents	Appearance	%NV	Viscosity (cps)
Methyl Ethyl Ketone	S	40	10
Methyl Isobutyl Ketone	S	40	10
Acetone	S	40	10
Xylene	S	40	190
1,1 Trichloroethane	S	40	1025
Ethyl Acetate	S	40	20
Isopropyl Acetate	S	40	20
n-propyl Acetate	S	40	40
Ethanol 3A	IS	40	-
Isopropyl Alcohol	IS	40	-
n-Propyl Alcohol	SH	40	110
Ethanol 3A/Ethyl Acetate (1:4)	S	40	20
Ethanol 3A/Ethyl Acetate (2:3)	S	40	25
Ethanol 3A/Ethyl Acetate (3:2)	S	40	30
Ethanol 3A/Ethyl Acetate (4:1)	IS	40	-
N-Propanol/N-Propyl Acetate 80/20	S	50	50
N-Propanol/N-Propyl Acetate 90/10	SH	40	58
N-Propanol/N-Propyl Acetate 95/5	SH	40	62
Toluene	S	40	150

Key: S = soluble; IS = insoluble; SH = slightly hazy

Safety

General

The usual safety precautions when handling chemicals must be observed. These include the measures described in Federal, State, and Local health and safety regulations, thorough ventilation of the workplace, good skin care, and wearing of protective goggles.

Safety Data Sheet

All safety information is provided in the Safety Data Sheet for Joncryl® 611.

Important

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