

Joncryl® 963

Product Description	<i>Joncryl 963 is a very soft, low Tg, flexibilizing modifier resin used in high solids systems for very low VOC crosslinked formulations.</i>
Key Features & Benefits	<i>- Flexibilizer - Enables low VOC formulas - Improves weatherability and acid-rain resistance</i>
Chemical Composition	Acrylic polyol

Properties

Typical Properties

Appearance		clear liquid
Non-volatile content	%	>98%
Hydroxyl number of solids	mg KOH/g	~ 130
Equivalent weight as supplied	g/eq	432
Density (at 20°C)		~1.03 g/cm ³
Tg	°C	-59
Viscosity at 25 °C (Brookfield #3LV, 12 rpm, 60 seconds)	cPs	2,000 – 12,000

* These typical values should not be interpreted as specifications.

Applications

Joncryl 963 is a very soft, flexibilizing reactive modifier for use in high solids systems for low VOC coatings systems. It aids in VOC reduction in coatings formulations given its low viscosity at high solids. It can improve acid-etch resistance and weathering properties in underperforming acrylics when blended.

Joncryl 963 is recommended for the following applications:

- Interior/Exterior general metal coatings
- Automotive OEM and refinish coatings

Formulation Example

Polyol Blending

Joncryl 963 can be blended to impact flexibility and mechanical properties while lowering VOC and maintaining viscosity.

	Joncryl 906 100%	J 906 / J 963 90% / 10%	J 906 / J 963 80% / 20%	J 906 / J 963 70% / 30%
Direct impact	< 20in#	60 in#	60 in#	60 in#
Reverse impact	< 20 in#	< 20 in#	40 in#	
Conical mandrel	> 32%	> 32%	> 32%	> 32%
Dry time				
Set to touch	1 hour	1 hour	0.5 hours	1.5 hours
Tack free	11 hours	16 hours	16 hours	16 hours
VOC (lbs/gal)	3.7	3.6	3.5	3.4

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 personal protective equipment.

Safety Data Sheet

All safety information is provided in the Safety Data Sheet for Joncryl 963.

Storage

Please refer to the "Handling and Storage of polymer dispersions" brochure.

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