

Industrial Coatings

Technical Data Sheet



Joncryl[®] 906-AC Polyol

Product Description	Joncryl [®] 906-AC is an acrylic polyol for low VOC urethane coating applications.
Key Features & Benefits	<ul style="list-style-type: none">- <i>Excellent gloss retention</i>- <i>Fast dry time</i>- <i>Exempt solvent</i>
Chemical Composition	Acrylic polyol

Properties

Typical Properties	Appearance	clear liquid
	Hydroxyl number of solids	~ 93
	Non-volatile at 150°C (0.5g, 60 minutes)	~ 75%
	Viscosity at 25.0 ± 0.5°C (Brookfield #4LV, 30 rpm, 30 seconds)	3,500 – 9,500 cps
	Density as supplied	~ 1.07 g/cm ³ (8.9 lbs/gal)
	Density of solids	~ 1.17 g/cm ³ (9.8 lbs/gal)
	Equivalent weight as supplied, of solids	~ 800, 600
	Tg	~ 16°C
	Solvent	Acetone

These typical values should not be interpreted as specifications.

Applications

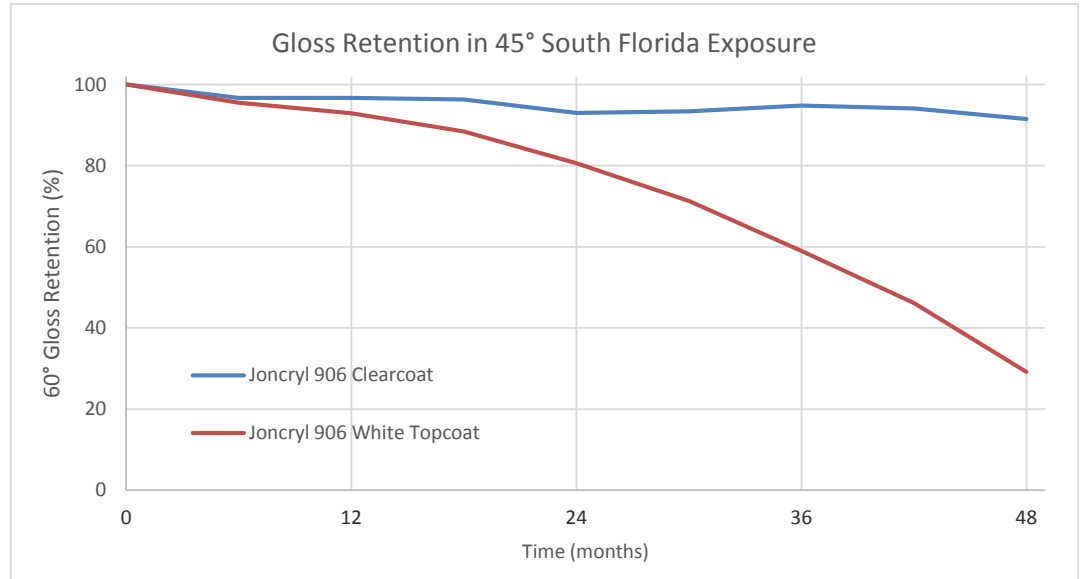
Joncryl[®] 906-AC is an exempt solvent version of Joncryl[®] 906 that is recommended for low VOC urethane coatings. Joncryl[®] 906-AC should be considered as a candidate for high performance maintenance and transportation coatings as a replacement for conventional solids urethane finishes.

Joncryl[®] 906-AC is recommended for applications such as:

- Interior/exterior general metal coating applications
- Automotive refinish applications

South Florida Weathering

The following graph demonstrates the 60° gloss retention of polyurethane coating formulations based on Joncryl® 906 in South Florida weathering (ASTM G7-05). No UV stabilizers were used.



Starting Point Formulation

The following starting point formulations is recommended for an initial evaluation of Joncryl® 906-AC. Additional optimization of the formulation may be required to achieve desired results for specific applications.

Joncryl® 906-AC Near-Zero VOC Clear, Formula 1053111-02-08

Part A	Pounds	Gallons
Joncryl® 906-AC	319.10	38.85
p-Chlorobenzotrifluoride (PCBTF)	614.42	54.86
BYK ¹ -333	1.66	0.19
BYK ¹ -361N	5.06	0.59
1% DBTDL in PCBTF	3.21	0.29
Subtotal	943.45	91.78
Part B		
Basonat® HI 100	79.96	8.22
Total	1,023.41	100.00

Formulation Attributes

Non-volatile	31.86% by wt, 36.57% by volume
Viscosity (A + B)	198 cps
NCO:OH ratio	1.05:1
Mix ratio by volume	11.2:1
Weight per gallon	10.23lbs/gal
VOC (calculated)	0 lbs/gal

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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® 906-AC.

Important

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One or more patents may apply to this product, including without limitation US Patent Nos. 6,048,471 and/or 6,306,943.



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