

# Joncryl® 552

<b>Product Description</b>	Joncryl 552 is a conventional solid, acrylic polyol for 2K polyurethane and melamine-crosslinked coatings.
<b>Key Features &amp; Benefits</b>	<ul style="list-style-type: none"><li>- Lacquer-like dry times</li><li>- Excellent gloss and gloss retention</li><li>- Good chemical resistance</li></ul>
<b>Chemical Composition</b>	Acrylic polyol

## Properties

<b>Typical Properties</b>	Appearance	clear liquid
	Hydroxyl number of solids	~ 90
	Acid number of solids	~ 8
	Non-volatile at 150°C (0.5g, 60 minutes)	~ 62%
	Viscosity at 25.0°C ± 0.5°C (Brookfield #4LV, 30 rpm, 30 seconds)	2,500 – 8,500 cP
	Density at 20°C (68°F)	~ 1.04 g/cm <sup>3</sup> (8.73 lbs/gal)
	Equivalent weight as supplied, of solids	~ 1,000, 620
	Tg	~ 49°C
	Solvent	n-Butyl acetate

\* These typical values should not be interpreted as specifications.

## Application

Joncryl 552, a solvent variation of Joncryl 550, is a hydroxyl functional acrylic oligomer designed for conventional solids isocyanate- and melamine-crosslinked systems. Joncryl 552 is a typical “workhorse” acrylic resin and differs from Joncryl 587 in cure time (faster) and UV durability.

Joncryl 552 is recommended for applications such as:

- Interior/exterior automotive OEM and refinish applications
- Interior/exterior general metal industrial coating applications
- Interior/exterior plastic component coating applications
- Interior/exterior concrete coatings

Joncryl 552 is available in the following solvents as the applicable product name:

- 65/35 blend PM acetate/toluene as Joncryl 550
- Xylene as Joncryl 551
- t-Butyl Acetate exempt solvent as Joncryl 558

Please refer to each product's Technical Data Sheet for performance information and specific starting point formulation

Performance properties of Joncryl 552 are like Joncryl 550 with only minor effects from the coating formulation solvents. For details on performance information, please refer to the Joncryl 550 technical data sheet.

Starting Point Formulation

The following starting point formulation is recommended for an initial evaluation of Joncryl 552. Additional optimization of the formulation will be required to achieve desired results for specific applications.

Joncryl 552 ACRYLIC URETHANE CLEAR COAT, Formula 1053111-02-04

Part A	Pounds	Gallons
Joncryl 552	509.42	58.55
n-Butyl acetate	165.00	22.48
n-Butyl propionate	24.85	3.40
2-Ethylhexyl acetate	6.42	0.88
Efka® FL 3670	1.58	.19
25% CAB <sup>1</sup> -551-0.01 in n-BA	34.61	4.43
10% DBTDL in n-BA	0.21	0.03
Subtotal	742.09	89.96
Part B		
Basonat® HI 100 NG	97.30	10.00
Total	839.39	99.96

Formulation Attributes

Non-volatile	50.35% by wt, 43.16% by volume
Viscosity (A + B)	210 cP
Weight per gallon	8.40 lbs/gal
NCO:OH ratio	1:1
VOC (calculated)	4.16 lbs/gal, 499.7 g/l
Mix ratio by volume	9:1

<sup>1</sup>Registered trademark of Eastman Chemical Company.

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 552.

## Important

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