

Industrial Coatings

Technical Data Sheet



Joncryl[®] 552 Polyol

Product Description	Joncryl [®] 552 is a conventional solids, acrylic polyol for polyurethane coatings.
Key Features & Benefits	<ul style="list-style-type: none">- Lacquer-like dry times- Excellent gloss and gloss retention- Good chemical resistance
Chemical Composition	Acrylic polyol

Properties

Typical Properties

Appearance	clear liquid
Hydroxyl number	~ 96
Non-volatile at 150°C (0.5g, 60 minutes)	~ 63%
Viscosity at 25.0 ±0.5°C (Brookfield #4LV, 30 rpm, 30 seconds)	~ 8,500 cps
Density at 20°C	1.04 g/cm ³ (8.73 lbs/gal)
Equivalent weight as supplied, of solids	1,000, 620
Tg (measured)	49°C (120.2°F)
Solvent	n-Butyl acetate
Freeze-thaw stable	Yes

These typical values should not be interpreted as specifications.

Applications

Joncryl[®] 552 is a solvent variation of a hydroxyl functional acrylic oligomer designed for conventional solids isocyanate 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 of 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 formulations.

Performance properties of Joncryl® 552 are similar to 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
BYK ¹ -066N	0.85	0.13
BYK ¹ -333	0.85	0.10
25% CAB ² -551-0.01 in n-BA	34.61	4.43
10% DBTDL in n-BA	<u>0.21</u>	<u>0.03</u>
Subtotal	742.21	90.00
Part B		
Basonat® HI 100	<u>97.30</u>	<u>10.00</u>
Total	839.51	100.00

Formulation Attributes

Non-volatile	50.35% by wt, 43.16% by volume
Viscosity (A + B)	210 cps
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

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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® 552.

Important

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U.S & Canada

BASF Corporation
24710 W Eleven Mile Road
Southfield, MI 48033
ph: 1(800) 231-7868
fax:1(800) 392-7429
Email: Custserv_charlotte@basf.com
Email: edtech_info@basf.com
www.basf.us/dpsolutions

Mexico

BASF Mexicana, S.A. de C.V.
Av. Insurgentes Sur # 975
Col. Ciudad de los Deportes
C.P. 03710
Mexico, D.F.
Phone: (52-55) 5325-2756
Fax: (52-55) 5723-3011