G-CURE® 108A70

Use

G-Cure® 108 Acrylic Resins are designed for high build, high volume solids acrylic urethane topcoats and primers. They will readily crosslink at room temperature with aliphatic polyisocyanates to give excellent application properties. G-Cure® 108 coatings can be applied by brush or roll-coater. VOCs as low as 2.7 pounds per gallon can be obtained for pigmented coatings at the point of application.

G-Cure® 108 Acrylic Resins can be used for high solids topcoats over metals, plastics and wood. Coatings produced from G-Cure® 108 Acrylic Resins exhibit superior gloss retention and yellowing resistance as well as excellent chemical and impact resistance. These resins are suitable for fleet finish and refinishing, low energy factory applied finishes, transportation and electronic housings.

Composition

ACRYLIC RESIN

Specification

Non Volatile (% by Weight)	68.0 - 72.0
Viscosity (cps @ 25 °C)	3500 - 5500
Color - APHA	100 max
Hydroxyl Value (100 % Solids)	97 - 112

Additional data

	G-Cure® 108A70		
Non Volatile (% by weight)	70	70	70
Viscosity (cps @ 25 °C)	4300	7500	5000
Color- APHA	40	40	40
Hydroxyl Value (100% Solids)	105	102	102

Hydroxyl Equivalent Weight (HEW)			
100 % Solids	535	550	550
As Supplied	765	785	785
WPG (lbs/gallon @ 25 °C)	8.6	8.8	9.0
Flash Point (Setaflash Closed Cup)	101 °F	81 °F	136 °F
% Volatile by Volume	38	36	34
Solvent Composition (% by weight)			
Methyl n-Amyl Ketone	100	---	---
n-Butyl Acetate	---	100	---
Ethyl 3-Ethoxypropionate	---	---	100

Application

Reaction Ratios

To obtain optimum performance, stoichiometric proportions of G-Cure® 108 Acrylic Polyol Resin and an aliphatic polyisocyanate should be reacted. The reaction ratio is calculated from the hydroxyl equivalent weight of the acrylic resin and the isocyanate equivalent weight of the polyisocyanates resin.

For aliphatic polyisocyanates, the recommended ratio is:

765 grams G-Cure® 108 Acrylic Resin
191 grams Tolonate HDT [1]

Or

765 grams G-Cure® 108Acrylic Resin
194 grams Desmodur N-3300 [2]

Or

765 grams G-Cure® 108 Acrylic Resin
255 grams Tolonate HDB 75BX [1]

Or

765 grams G-Cure® 108 Acrylic Resin
255 grams Desmodur N-75 [2]

[1] Rhodia Inc.
[2] Bayer Corp.

Miscellaneous

PACKAGING, STORAGE AND HANDLING

G-Cure® 108 Acrylic Resin can be stored in sealed containers for at least a year. G-Cure® 108 Acrylic Resin may turn opaque when stored at temperatures below 30 °F. If this should occur, bring the resin to a warmer location, above 40 °F, until normal resin clarity returns. Resin performance is unaffected by these storage conditions provided the resin appearance is clear before being used.

G-Cure® 108 Acrylic Resin requires "flammable liquid labeling" according to the Department of Transportation.

Availability

G-Cure® 108 Acrylic Resin is supplied in 55-gallon drums containing 460 pounds net. Shipments are made from Kankakee, IL and also conveniently located warehouses. Additional information and samples are available on request from COGNIS Corporation, Coatings & Inks Division, 300 Brookside Ave., Ambler, PA 19002.

Revision-No. 0-09.2000 Effective October 1, 2000

Subject to appropriate storage under the usual storage and temperature conditions, our products are durable for at least 1 year.

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