

INTRODUCTION

G-CURE 17-0108 (formerly G-CURE 108A70) acrylic resin is designed for high build, higher volume solids acrylic urethane topcoats and primers. It will react at room temperature with aliphatic polyisocyanates to give excellent application properties. Pigmented coatings can be formulated to VOCs as low as 2.7 lbs/gal. Coatings produced from G-CURE 17-0108 exhibit superior gloss retention and yellowing resistance as well as excellent chemical and impact resistance.

TYPE

Acrylic Polyol

FORM OF DELIVERY (F.O.D.)

70.0% non-volatile in Methyl n-Amyl Ketone

PRODUCT DATA

Non-Volatile, by wt:	70.0 ± 2.0 %
Viscosity, Brookfield (77° F):	3500 – 5500 cps
Hydroxyl value, on n.v. (theoretical):	97 – 112
Color, Gardner:	100 maximum APHA
Appearance :	Clean, clear and free from extraneous matter; may turn opaque when stored below 30°F: if this occurs, warm above 40°F until clear
Density:	8.60 ± 0.10 lbs/gal
HEW on n.v.:	535
Non-volatiles, by vol:	62.0%
Flash Point:	101° F Setaflash

PERFORMANCE HIGHLIGHTS

- Superior gloss retention and yellowing resistance
- Excellent chemical and impact resistance
- 2.7 lbs/gal VOC coatings

SUGGESTED USES

- Automotive refinish and fleet finish
- OEM topcoats, transportation and electronic housings

STORAGE

At temperatures up to 100°F storage stability packed in original containers amounts for 3years.

CURING WITH POLYISOCYANATES

Based on 100% conversion of reactive groups the following equation can be used to calculate the quantity of polyisocyanate needed for crosslinking 100 parts (G-Cure 17-0108) (on solids):

$$\text{Polyisocyanate (f.o.d.)} = \frac{42 \times 100 \times \text{OH\% (solid resin)}}{17 \times \text{NCO\% (f.o.d.)}}$$

42 = molecular weight of the NCO-group
17 = molecular weight of the OH-group

Anhydrous solvents as well as solvents free of hydroxyl functional groups should be used in the presence of polyisocyanates, as dilution solvents.

PRECAUTIONS

Before using G-CURE 17-0108, see the Safety Data Sheet (SDS) for information on the identified hazards of the material and the recommended personal protective equipment and procedures.

STORAGE AND HANDLING

Care should be taken not to expose the product to high temperature conditions, direct sunlight, ignition sources, oxidizing agents, alkalis or acids. Storage and handling should be in stainless steel, amber glass, amber polyethylene or baked phenolic lined containers. Wash thoroughly after handling. Keep container tightly closed. Use with adequate ventilation. See the SDS for the recommended storage temperature range for G-CURE 17-0108.