

INTRODUCTION

G-CURE 27-0196 (formerly G-CURE 196BL80) acrylic resin is a hydroxyl functional acrylic copolymer designed to produce low VOC, high solids coatings with good performance. Coatings with an application VOC of 2.1 – 2.8 lbs/gal can be produced. At room temperature, G-CURE 27-0196 will readily crosslink with aliphatic polyisocyanates.

TYPE

Acrylic Polyol

FORM OF DELIVERY (F.O.D.)

80.0% non-volatile in n-butyl acetate

PRODUCT DATA

Non-Volatile, by wt:	80.0 ± 2.0 %
Viscosity, Brookfield (77° F):	9,000 – 12,000 cps
Hydroxyl value, on n.v. (theoretical):	60 – 80
Color:	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:	8.70 ± 0.10 lbs/gal
HEW on n.v.:	800
Non-volatiles, by vol:	76.0 %
Flash Point:	81°F Setaflash

PERFORMANCE HIGHLIGHTS

- Economical formulations
- Good performance
- 2.1 – 2.8 lbs/gal VOC coatings

SUGGESTED USES

- Light-duty maintenance and industrial coatings

STORAGE

In the original sealed containers, this product is stable for 3 years at temperatures up to 100°F.

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 27-0196) (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 27-0196, 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 27-0196.