G-CURE™ 17-1444

Technical Datasheet

INTRODUCTION

G-CURE 17-1444 (formerly G-CURE 144A70) is an acrylic polyol, with 4.2% OH, that when combined with appropriate aliphatic polyisocyanates, provides excellent application and appearance properties and good properties of DOI, adhesion and outdoor durability. G-CURE 17-1444 also possesses good flexibility and hardness.

TYPE

Acrylic polyol

FORM OF DELIVERY (F.O.D.)

70% non-volatile in methyl n-amyl ketone

PRODUCT DATA

Non-volatile, by weight:	70.0 ± 1.0%
Non-volatile, by volume:	62.6%
Viscosity (77° F / 25° C)	Z1 – Z3 Gardner Holdt
HEW on n.v.:	400
Acid value on n.v:	14 – 18 mg KOH/g
Color:	150 maximum APHA
Density:	8.50 ± 0.10 lbs/gal
Appearance:	Clean, clear, and free from extraneous matter
Flash point:	> 102° F SETFLASH

PERFORMANCE HIGHLIGHTS

- Excellent application properties and DOI
- Good exterior durability and gloss retention
- Excellent chemical and abrasion resistance
- Excellent hardness and flexibility

SUGGESTED USES

- Topcoats for Industrial Maintenance applications
- Topcoats for General Industrial applications
- Topcoats for ACE applications

STORAGE

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

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 17-1444) (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 17-1444, see the Safety Data Sheet (SDS) for information on the identified hazards of the material and the recommended personal protective equipment and procedures.

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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 17-1444.

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