

G-Cure[®] 17-1871

INTRODUCTION

G-CURE 17-1871 (formerly G-CURE 871X60) is a hydroxy functional acrylic resin designed to produce ambient curing high performance coatings when reacted with aliphatic isocyanate resins in two-component systems. Coatings formulated with G-CURE 17-1871 exhibit fast surface dry and through dry while maintaining a long pot-life. G-CURE 17-1871 formulated coatings show good chemical resistance, hardness and good compatibility with other acrylic polyols.

TYPE

Acrylic polyol

FORM OF DELIVERY (F.O.D)

60.0% non-volatile in xylene

PRODUCT DATA

Non-Volatile, by wt.:	60 ± 1.0 %
Viscosity (77° F):	Z2 – Z4 Gardner Holdt
Acid value, on n.v.:	8 – 12 mg KOH/g
Color:	60 maximum APHA
Appearance:	clean, clear and free from extraneous matter
HEW on n.v.:	800
Density:	8.50 ± 0.10 lbs/gal
Flash Point:	80° F Setaflash
Non-volatile, by vol:	59.3%
Reduced viscosity:	T – V Gardner – Holdt @ 50% in xylene

PERFORMANCE HIGHLIGHTS

1. Excellent drying properties
2. Excellent hardness
3. Good chemical resistance and exterior durability
4. Low isocyanate demand

SUGGESTED USES

1. Topcoats and clearcoats for Car Refinishes
2. Coatings for wood, metal or plastics
3. Fast drying coatings for industrial maintenance, transportation and heavy equipment

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 (*insert product name*) (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.

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PRECAUTIONS

Before using G-CURE 17-1871, 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 17-1871.