SETALUX® 57-2500

Technical Datasheet

INTRODUCTION

SETALUX 57-2500 is an extremely fast cure, VOC-free, hydroxy-functional acrylic polyol for two component vehicle refinish applications. Paint develops hardness and chemical resistance very fast and is ready to buff in 15 - 30 minutes. This acrylic polyol is designed for fast curing clearcoat or single-stage paint applications. In addition, it contributes excellent application properties, excellent gloss and DOI and very good durability.

TYPE

Acrylic polyol

FORM OF DELIVERY (F.O.D.)

60% non-volatile in PCBTF / acetone (67 / 33 pbw)

PRODUCT DATA

Non-Volatile, by wt:	60.0 ± 1.0 %
Viscosity (77° F):	Z – Z2 Gardner – Holdt
Acid value (on n.v.):	14 – 18 mg KOH/g
Color:	30 maximum APHA
Appearance:	Clean, clear and free from extraneous matter
Density:	9.30 ± 0.10 lbs/gal
Non-volatiles, by vol:	59.1%
Flash Point:	-2° F Setaflash
HEW on n.v.:	400
Reduced viscosity:	B – F Gardner – Holdt @ 50% n.v. in acetone

PERFORMANCE HIGHLIGHTS

Fast cure, long pot-life
Excellent early hardness development; dust-free in <10 min
Very good crosslinking development (MEK rubs) and exterior durability
Excellent clarity, gloss and distinctness of image (DOI)
Low VOC coatings possible; <3.0 lbs/gal

SUGGESTED USES

- 2.1, 3.5, and 4.0 lb/gal VOC Clearcoats for vehicle refinish
- Monocoats for vehicle refinish and transportation
- Modifier resin for two component basecoats and monocoats

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 (Setalux 57-2500) (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 SETALUX 57-2500, 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 SETALUX 57-2500.