SETALUX® 17-2319

Technical Datasheet

INTRODUCTION

SETALUX 17-2319 is a hydroxy functional acrylic polyol, which has excellent adhesion to all the common metal substrates like cold rolled steel, stainless steel, aluminum, galvanized surface, etc. It is HAPs-free and contains PCBTF. This allows formulator to make very low VOC direct-to-metal (DTM) primer. SETALUX 17-2319 exhibits very good corrosion and humidity resistance. It gives excellent inter-coat adhesion with various types of topcoats and gives superior topcoat hold-out.

TYPE

Acrylic polyol

FORM OF DELIVERY (F.O.D.)

60% non-volatile in PCBTF/ n-butyl acetate
(50 / 50 pbw)

PRODUCT DATA

Non-Volatile, by wt.:	60 ± 1.0 %
Viscosity (77° F):	Y – Z1 Gardner Holdt
Acid value, on solids:	6 – 10 mg KOH/g
Color:	2 maximum APHA
Appearance:	clean, clear and free from extraneous matter
HEW on n.v.:	600
Density:	9.25 ± 0.10 lbs/gal
Flash Point:	81° F Setaflash
Non-volatile, by vol:	59.0%
Reduced viscosity:	H – K Gardner – Holdt @ 50% in n-butyl acetate

PERFORMANCE HIGHLIGHTS

- Excellent adhesion to various metal substrates (DTM adhesion)
- Very good corrosion, humidity resistance and exterior durability
- Excellent inter-coat adhesion and topcoat hold-out
- Excellent balance of hardness and flexibility
- Long pot-life

SUGGESTED USES

- 2.1 to 4.6 VOC DTM Primer
- Primer for Car Refinish and Fleet application
- Primer for both metal and plastics applications

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 17-2319) (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 17-2319, 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 17-2319.