

INTRODUCTION

SETALUX D A XP 2588 is a hydroxyl-functional acrylic polyol that is a co-reactant with hexamethylene diisocyanate based polyisocyanates to formulate air-and force-dry two-component polyurethane coatings with good light stability, chalking resistance and gloss retention. The cured paint films are hard, tough but flexible, glossy and high-bodied with good resistance to solvents and gasoline.

TYPE

Acrylic polyol

FORM OF DELIVERY (F.O.D)

70 % non-volatile in n-butyl acetate

PRODUCT DATA

| | |
|---|-------------------|
| Non-Volatile, by wt.: | 70.0 ± 2.0 % |
| Viscosity (23° C): | 2500 ± 1000 mPa.s |
| Acid value, as such: | 7 ± 1.5 mg KOH/g |
| Color: | 50 maximum Hazen |
| Hydroxyl content, as supplied: (theoretical) | 2.0 – 2.4 % |
| HEW as supplied: | 770 |
| Density 20° C: | 8.60 lbs/gal |
| Flash Point: | 23° C |
| Non-volatile, by vol: | 64.9% |
| Water content: | ≤0.1% |

PERFORMANCE HIGHLIGHTS

- Good light stability, chalking resistance and gloss retention
- Hard, tough but flexible
- Good chemical resistance

SUGGESTED USES

- 2K polyurethane coatings for automotive refinish and general industrial coatings

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 D A XP 2588) (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.

STORAGE

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

PRECAUTIONS

Before using SETALUX D A XP 2588, 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 D A XP 2588.