



TECHNICAL PRODUCT BULLETIN

GENERAL DESCRIPTION

U100 is an oil free, aromatic one-package moisture curing polyurethane designed for fast drying protective coatings on rigid substrates such a wood, metal and concrete. U100 produces polyurethane paint films having exceptional surface hardness and good resistance to chemicals.

ADVANTAGES:

- Excellent Adhesion
Excellent Hardness and Abrasion Resistance
Fast Dry Time
Impact Resistance
Chemical and Water Resistance
High Glass

APPLICATION:

U100 may be applied by brush, roller, dip, applicator or spray. For best results with an applicator, the coating should be poured or lowed over the surface, taking care to minimize air entrapment. Damp surface should be primed with a 25% solid coat to tie up surface moisture and prevent bubbling in subsequent coats. Adequate ventilation is required when U100 is applied. This product contains Methyl Amyl Ketone solvent. For spry applications, a mask or self contained breathing apparatus must be worn

CATALYSIS :

As an aromatic moisture cure polyurethane, U100 will cure at reasonable rate without additional catalyst. Typical tack free times are between 12 and 24 hours depending on solvent choice, film thikness, and drying conditions. If a faster cure rate is desired, ALFA C2 in a concentration less than 0.1 weight percent relative to resin solids is recommended. The addition of a tin co catalyst will accelerate the cure even further and less than 0.2 %weight percent ALFA C3 on resin solids is recommended.

SPECIFICATIONS

HANDLING CHARACTERISTICS

Table with 2 columns: Property and Value. Rows include Appearance (clear Liquid), Solids (80%), Viscosity @ 72F (8000 cps), NCO, % (8.1), Wt./ gallon (8.9 lbs), Specific Gravity (1.02), VOC (0.98 Lbs/ gal), Solvents (Methyl Amyl Ketone), Sward Hardness (20), and TSCA Status (All components are listed on the TASCAs inventory).

CURE SCHEDULE:

Table with 3 columns: Product Name, Solids, and Tack free Time. Rows show cure schedules for U100 with ALFA C1, ALFA C2, and ALFA C3 at various concentrations.

SOLVENT COMPATIBILITY:

Solids reduction can be achieved by blending U100 with non-reactive solvent like MAK, Xylene and ALFA C1.

The information given and the recommendations made herein are based on our research and are believed to be accurate but no guarantee of their accuracy is made. In every case we urge and recommend that purchasers before using any product in full scale production make their own tests to determine to their own satisfaction whether the product is of acceptable quality and is suitable for their particular purposes under their own operation conditions.