

K-FLEX UD-320 is a high solids, aliphatic, low molecular weight urethane diol oligomer. It is soluble in polar organic solvents and has broad compatibility with acrylic, polyester, and alkyd resins. K-FLEX UD-320 will increase the hardness of a melamine crosslinked system. When used to modify a 2-component polyurethane, it will increase hardness and flexibility. K-FLEX UD-320 responds best to a zirconium chelate catalyst when used in isocyanate crosslinked systems.

APPLICATIONS:

- Machinery and Equipment Coatings
- Appliance Coatings
- Automotive Coatings
- Paper Coatings
- Wood Coatings
- Aerospace Coatings
- Automotive Repair

ADVANTAGES:

- Low VOC
- Increased Hardness
- Good Chemical Resistance
- Good Exterior Durability
- Excellent Hydrolytic Stability
- Good QUV Resistance
- Urethane Functionality without Isocyanates

TYPICAL PROPERTIES:	Appearance	Clear, Straw Viscous Liquid
	% Active	82
	Viscosity, cPs, 25° C	7,000
	Hydroxyl number	300
	Hydroxyl equiv. Weight	188
	Weight per gallon, 25°C	9.4 lb.
	Gardner color	2
	Volatile	PM Acetate

SOLUBILITY: Soluble in most organic solvents with the exception of aromatic and aliphatic hydrocarbons. Aromatic solubility can be achieved in combination with a hydrogen bonding solvent.

TYPICAL USAGE LEVELS: Typically 5 -15% on total resin solids (TRS) for melamine baking systems or 5 - 10% on TRS for 2-component urethanes.

SHELF LIFE: 24 months from the date of manufacture when stored at room temperature in the original container.

HANDLING & STORAGE: Store in cool, dry location. Keep containers closed when not in use. Do not store near open flame or other sources of ignition. Periodic venting of containers is recommended.

REGULATORY: Please refer to Section 15 of the Material Safety Data Sheet for information.