

K-FLEX[®] UD-320 Polyurethane Polyol



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

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