

K-FLEX® UD-320 Polyurethane Diol



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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 Appearance Clear, Straw Viscous Liquid

PROPERTIES: % 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 Safety Data Sheet for information.

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