

K-FLEX® 171-90 **Polyester Diol**



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K-FLEX 171-90 is a chain extended version of K-FLEX 188. Although it is slower reacting in isocyanate crosslinked systems than K-FLEX 188, it offers longer pot life, improved adhesion and flexibility. Because of its lower hydroxyl number, K-FLEX 171-90 requires less crosslinker. K-FLEX 171-90 can also be used as a modifier of aminoplast crosslinked coatings, inks and adhesives to improve flexibility and adhesion.

APPLICATIONS: 2K Urethane Coatings

> Office Furniture Coatings **Appliance Coatings Elastomeric Coatings** Metal Decoration Flexible Substrates **Epoxy Flexibilizer** Coil Coatings

ADVANTAGES: Low VOC

High Resistivity

Low Isocyanate Demand

Prolonged Potlife Good Flow/Leveling Improved Flexibility

Appearance Clear to Hazy Straw Liquid **TYPICAL**

PROPERTIES: % Active Viscosity, cPs, 25° C 3.700 Hydroxyl number* 130

Hydroxyl equiv. Weight* 432 Weight per gallon, 25°C 9.2 lb. Gardner color

Volatile Butyl Acetate/Xylene

* As Supplied

SOLUBILITY: Soluble in alcohols, esters, ketones, xylene, Aromatic 100 and Aromatic 150.

Partially soluble in mineral spirits. Insoluble in water.

TYPICAL USAGE Typically 5-10% on total resin solids (TRS) for melamine baking systems or 5-25%

LEVELS: 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 & Store at ambient temperatures in a dry location. Haze may develop upon STORAGE:

prolonged storage or temps: 0-5°C. Warming to 40-50°C will restore clarity.

Please refer to Section 15 of the Safety Data Sheet for information. **REGULATORY:** File:K-FLEX 171-90 Issue Date: 8/17/17 Supersedes: 5/31/02

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