

K-FLEX[®] UD-350W Polyurethane Diol



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K-FLEX UD-350W is an aqueous solution of an aliphatic, low molecular weight urethane diol oligomer. It is recommended as a modifier for amino crosslinked water soluble and emulsified acrylic, alkyd, urethane and polyester resins. K-FLEX UD-350W can be used as a reactive cosolvent replacement to increase solids, crosslink density, improve film/resistance properties and flow/leveling.

| APPLICATIONS: | Emulsions or water-borne thermoset coatings crosslinked with aminoplasts: Coil coatings Overprint varnishes Appliance coatings Automotive coatings Wood coatings Can coatings Dip coatings | |
|--------------------------|---|--|
| ADVANTAGES: | Allows cosolvent reduction (lower-VOC) Water soluble without using amine and cosolvent Reduced Popping Increased hardness Good chemical/stain resistance Improved flow/leveling (higher gloss) Good hydrolytic stability Excellent QUV resistance and exterior durability Anti-skinning | |
| TYPICAL PROPERTIES: | Appearance % Active, wt. % Diluent Viscosity, cPs, 25° C Hydroxyl number (as supplied)* Hydroxyl equiv. Weight (as supplied) Color, Gardner Weight per gallon, lbs. *Calculated on resin hydroxyls | Straw colored liquid 88 Water 4,000 325 170 2 9.4 |
| SOLUBILITY: | K-FLEX UD-350W is soluble in water and in all water miscible organic solvents. It is not soluble in aliphatic and aromatic hydrocarbons. | |
| TYPICAL USAGE LEVELS: | K-FLEX UD-350W should be used as a reactive resin modifier at 2-15% of total resin solids. At levels greater than 5% the aminoplast ratio should be increased. For more details see chart in K-FLEX urethane diol brochure. | |
| SHELF LIFE: | Minimum of 24 months from date of manufacture, when stored in the original container at ambient conditions. | |
| HANDLING & STORAGE: | Store in a cool, dry location. Please consult Safety Data Sheet for further information. | |
| REGULATORY: | Please refer to Section 15 of the Safety Data Sheet for information. | |

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