

Product Data Sheet

K-KAT[®] 348 Urethane Catalyst



Science Road
Norwalk, CT 06852
(800) 431-7900
Fax: (203) 866-1268
E-Mail: coatings@kingindustries.com

K-KAT 348 is a versatile bismuth carboxylate catalyst designed for blocked isocyanate and two component urethane coatings. It can provide similar properties to standard tin catalysts without the environmental drawbacks.

ADVANTAGES: Can be used in ambient, force dry and bake systems
Excellent gloss retention
Excellent exterior durability

| | | |
|----------------------------|---------------------------------|---------------------|
| TYPICAL PROPERTIES: | Appearance | Clear, straw liquid |
| | % Active (as metal carboxylate) | 75 |
| | % Metal | 25 |
| | Specific gravity, 25°C | 1.24 |

SOLUBILITY: K-KAT 348 is soluble in aromatics, aliphatics and glycol ethers. It has limited solubility in esters and alcohols. K-KAT 348 is insoluble in water and ketones.

APPLICATIONS: K-KAT 348 is recommended for 2K and blocked isocyanate coatings. K-KAT 348 can replace many heavy metal and/or toxic catalysts used in the production of urethane elastomers, foams and coatings. K-KAT 348 is especially effective in cationic electro-coatings based on blocked isocyanates.

TYPICAL USAGE LEVELS: One component formulations based on blocked isocyanates generally require higher catalyst levels than 2-component (2K) systems. Levels of 0.5 -2.0% K-KAT 348 as supplied by weight on resin solids should be used with blocked isocyanates while 0.03 - 0.1% is recommended for 2K coatings. Refer to chart on the back of this page for more information on suggested usage levels.

INCORPORATION: K-KAT 348 can be added directly to a single component blocked isocyanate system or the polyol component of a 2K system. Do not pre-dilute with solvent.

SHELF LIFE: 24 months from the date of manufacture, when stored at ambient conditions in the original container.

HANDLING & STORAGE: K-KAT 348 is classified as a corrosive liquid. Safe handling of this product should include the use of a respirator, safety glasses and gloves. Avoid breathing vapors - use with adequate ventilation. K-KAT 348 is sensitive to moisture; therefore, exposure to atmosphere during storage should be avoided. Product should be stored in a cool, dry environment away from sunlight and excessive heat. Consult the Material Safety Data Sheet prior to use.

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

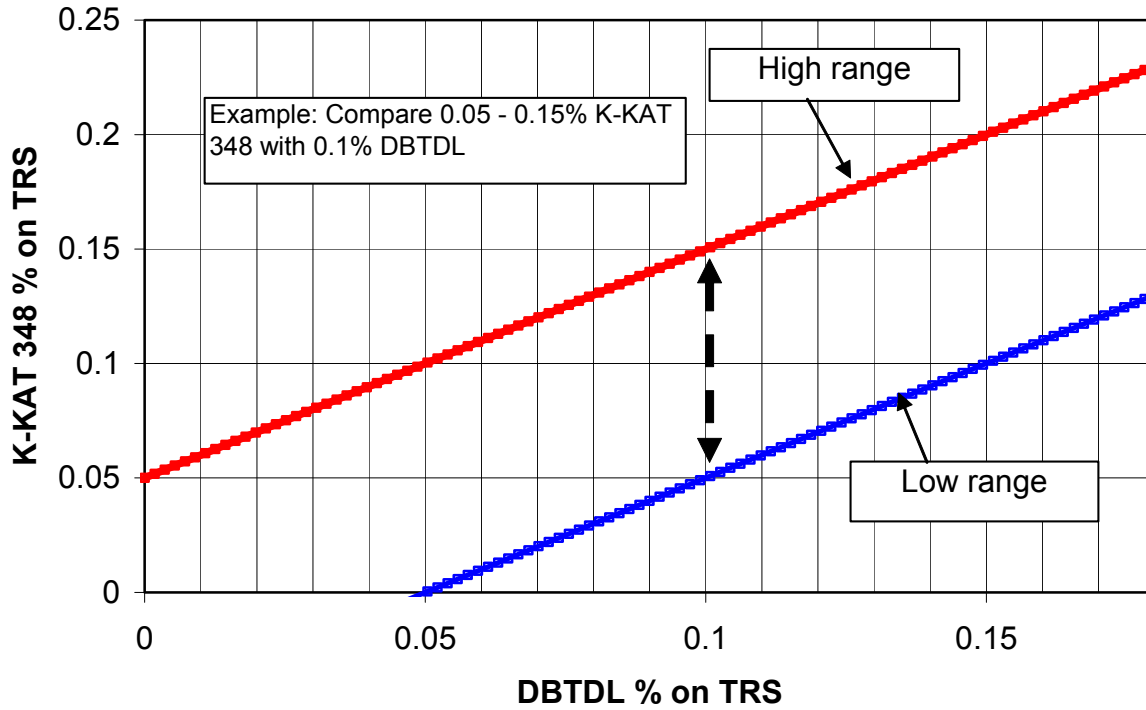
File: K-KAT 348

Issue Date: 2/5/04

Supersedes: 11/06/03

The conditions of your use and application of our products, technical assistance and information (whether verbal, written or by way of product evaluations), including any suggested formulations and recommendations, are beyond our control. Therefore, it is imperative that you test our products, technical assistance and information to determine to your own satisfaction whether they are suitable for your intended uses and applications. Such testing has not necessarily been done by King Industries, Inc. ("King"). The facts, recommendations and suggestions herein stated are believed to be reliable; however, no guaranty or warranty of their accuracy is made. EXCEPT AS STATED, THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE. KING SHALL NOT BE HELD LIABLE FOR SPECIAL, INCIDENTAL, CONSEQUENTIAL OR EXEMPLARY DAMAGES. Any statement inconsistent herewith is not authorized and shall not bind King. Nothing herein shall be construed as a recommendation to use any product(s) in conflict with patents covering any material or its use. No license is implied or granted under the claims of any patent. Sales or use of all products are pursuant to Standard Terms and Conditions stated in King sales documents.

K-KAT 348 Catalyst Concentration on TRS* DBTDL Replacement Level



* catalyst level as supplied based on total resin solids