

**Preliminary Data Sheet
K-KAT[®] XC-B221**



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K-KAT XC-B221 is an experimental bismuth carboxylate catalyst designed for blocked isocyanate and two component urethane coatings. It is a bismuth catalyst that 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 (metal carboxylate)	100
% Metal	20
Specific gravity, 25°C, g/ml	1.18

SOLUBILITY:

Water	Not Soluble
Methanol, ethanol, isopropanol, butanol	Soluble, hot
Aromatic hydrocarbon	Soluble
Glycol ethers, glycol ether acetates	Soluble
Aliphatic Hydrocarbons	Soluble

APPLICATIONS: K-KAT XC-B221 is recommended for 2K and blocked isocyanate coatings. K-KAT XC-B221 can replace many heavy metal and/or toxic catalysts used in the production of urethane elastomers, foams and coatings. K-KAT XC-B221 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 XC-B221 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.

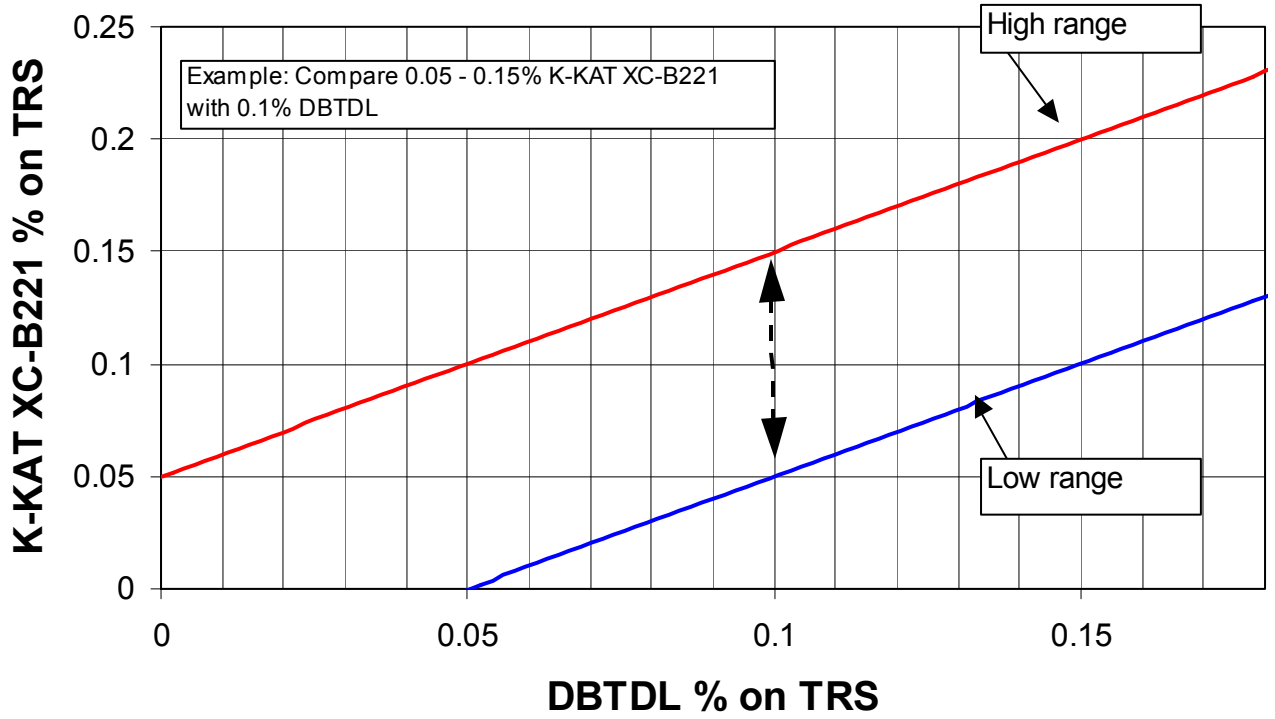
INCORPORATION: K-KAT XC-B221 can be added directly to a single component blocked isocyanate system or the polyol component of a 2K system. Do not pre-dilute with solvent.

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

HANDLING & STORAGE: 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 XC-B221 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.

K-KAT XC-B221 Catalyst Concentration on TRS* DBTDL Replacement Level



* catalyst level as supplied based on total resin solids