

# K-PURE® CXC-1821

## Blocked Acid Catalyst



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K-PURE® CXC-1821 is a quaternary ammonium blocked super acid catalyst, designed to provide similar performance to SbF<sub>6</sub> type catalysts, but without the antimony. CXC-1821 can catalyze the reaction of epoxy resins, ring opening of cyclic ether groups, and polymerization of monomers sensitive to cationic polymerization. CXC-1821 can also be used as a thermal acid generator in systems that require pH control at elevated temperatures.

**ADVANTAGES:** Fast Cure Response with no out-gassing  
Good Viscosity Stability  
Thermal Initiation  
Antimony Free product

**TYPICAL PROPERTIES:** Appearance Solid White Powder  
Volatiles, % <1%  
Active Acid Content, % 50

**SOLUBILITY:** Soluble in; propyleneglycol monomethylether (PGME), Acetone, Ethyl-lactate, propylene carbonate

Insoluble in; Water, hydrocarbons, aromatic solvents

**APPLICATIONS:** Formulated resin systems such as conformal coatings, encapsulants, adhesives, sealants, conductives, laminates, coatings, or any system requiring a strong acid.

**TYPICAL USAGE LEVELS:** 0.01 to 3.0% as supplied on total resin solids.

**INCORPORATION:** May be added directly to the formulation. Resin may need to be heated, do not heat over 50°C when incorporating CXC-1821. Caution should be taken when incorporating into low viscosity reactive diluents such as vinyl ethers or limonene diepoxides.

CXC-1821 can be preblended with reactive diluents or solvents to form a concentrate. This type of preparation should be used within a few days. In the long term, a shift in color of the solution may occur, which may impact the long term stability of the formulated product.

**HANDLING, STORAGE & SHELF LIFE:** Handle with extreme care and consult the SDS for safe handling. For maximum stability and prolonged shelf life, store in a sealed container at 10°C or less. Under these conditions, the product is certified for 15 months from the date of manufacture. Avoid exposure to moisture and elevated temperature. Solutions are less stable than the solid catalyst.

**REGULATORY:** Please refer to the Safety Data Sheet.