

KETJENFLEX® CP (Catalyst)

KETJENFLEX® CP is a paratoluene sulfonic acid based catalyst used in reactions of many chemical systems. As such it is used in typically small amounts (0.2%-3%) as for example in:

- Epoxy resins
- Acid cured amino resins for wood coatings
- Curing of melamine resins
- Stabilizer for isocyanate prepolymers
- Catalyst for fine chemical reactions
- Electroplating

KETJENFLEX® CP does not need any activation and can be readily used. It is supplied as easy pourable powder. In coating and adhesives it provides fast cure, excellent weathering and exterior durability and high gloss.

Epoxy resins

KETJENFLEX® CP accelerates cationic curing mechanisms in epoxy resins. It can be combined with tertiary amines for low temperature cure epoxy systems.

Acid cured amino resins are typically used in wood coatings for indoor use such as floors. In being essentially a 2 component system, KETJENFLEX® CP forms the hardener component *accelerating* the cure of the resin. Typically KETJENFLEX® CP is added at 2% to 3% based on solids to provide maximum cure response. Care should be taken not to overdose as it will cause hydrolysis of the resin forming butyric acids and other components.



Melamine systems

KETJENFLEX® CP is used to promote the crosslinking of hydroxyl-functional polymers with amino-formaldehyde crosslinking agents such as hexamethoxymethyl melamine, especially in coil coatings.

In coil primers, KETJENFLEX® CP provides outstanding cure, viscosity stability upon oven aging, and corrosion/salt spray resistance and provide excellent adhesion/intercoat adhesion of the coating. Typical addition rate are 2 to 3% based on solids.

KETJENFLEX® CP can also be used in aqueous melamine based veneers.

Stabilizer in isocyanate polymers

Isocyanate prepolymers are usually viscous liquids, manufactured in mixed batch reactors. Being relatively reactive an acid stabilizer as KETJENFLEX® CP is added to increase prepolymer stability during stockpiling.

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KETJENFLEX® is a registered trademark of Axcentive SARL

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Catalyst in fine chemicals

KETJENFLEX® CP is a standard catalyst in many condensation reaction to produce fine chemicals as such the following reactions are catalyzed by KETJENFLEX® CP:

- Fatty acid esterification
- Aldol and enol reactions
- Nitrosations of alkenes
- Synthesis of azo dyes
- Synthesis of various other dyes and pigments

Electroplating

KETJENFLEX® CP is used as a pH regulator in electroplating processes. KETJENFLEX® CP (in combination with nitric acids) can be used for what is called the 'bright dip' giving a shiny surface to copper, silver, gold, chrome and nickel electroplated metal.

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