CYCAT® 500

Technical Datasheet

PRODUCT DESCRIPTION

CYCAT® 500 catalyst is a strong acid catalyst based on dinonylnaphthalene disulfonic acid supplied in isobutanol. It is recommended to accelerate the cure between hydroxyl, carboxyl, and amide functional groups with alkylated amino crosslinking agents. CYCAT® 500 is recommended for use in electrocoating applications to achieve cure in the range of 110 - 135°C in 15 - 30 minutes, or to reduce the baking time at higher baking temperatures. CYCAT® 500 is also recommended for coatings applied by other application techniques, providing improved adhesion and resistance properties compared with other sulfonic acid catalysts. Since CYCAT® 500 is a free acid, package stability could be adversely impacted.

BENEFITS

- Reduces energy requirements
- No decrease in electrocoat bath stability
- High electrical resistivity
- Improves resistance properties

APPLICATION AREAS

- Primers
- Electrocoat
- Coil coating finishes
- High solids systems
- Electrostatic spray systems

PHYSICAL/CERTIFIED PROPERTIES

Property	Value	Method
Appearance	Clear, amber liquid	ASTM E284
Acid Value, mg KOH/g	80-90	DIN EN ISO 2114
Color, Gardner	≤ 12	DIN EN ISO 4630-1

TYPICAL PROPERTIES

(NOT CONTINUALLY MEASURED)

Property	Value	Method
Density, g/ml	~0.93	ASTM D1475-13
% Active	~40	

SOLUBILITY

CYCAT® 500 catalyst is soluble in most commonly used organic solvents. Its solubility in water is limited.

CATALYST ADDITION

CYCAT® 500 catalyst contains approximately 40% active acid.
Recommended dosage is 1 - 3% as supplied on total resin solids depending upon cure schedule.

STORAGE STABILITY

CYCAT® 500 catalyst has a shelf life of 1080 days from the date of manufacture when stored in original unopened containers at temperatures up to 32°C. The expiration date may be extended and COA updated after QC testing of retained samples, only for material in allnex possession.

SAFETY AND HANDLING

Please consult the Safety Data Sheet for safety, health, and environmental data. FOR INDUSTRIAL USE ONLY.