Chroma-Chem® Synermix® 5005

Specialty Drier Alternative to Cobalt

Synermix® 5005 is a chelating catalyst designed to replace cobalt driers that cause undesirable side effects. Synermix® 5005 is hydrolysis resistant to minimize initial and post dry color changes associated with cobalt. It is cut in xylene and n-butanol for use in conventional solvent borne systems. Synermix® 5005 is also very useful in clear or brightly colored conventional alkyds or Oil/Alkyd modified polyurethanes which have a tendency to discolor.

Key Benefits

Synermix® 5005 is a specialty drier that will minimize discoloration of clears (e.g. oil modified polyurethanes) after drying, increase resistance to yellowing of air-dry alkyd finishes exposed to prolonged heat or alkaline fumes, and prevent loss of dry properties during shelf life minimizing the need for a "feeder drier". In addition, it does not contain any heavy metals.

Applications

- Industrial coatings
- Architectural coatings

Physical Properties

Property	Value
Appearance\Color	Liquid\Amber
Weight per gallon	6.9 lbs.
Nonvolatile Content	10%
Flash Point	75 °C
Solvent	Xylene:nBuOH

Level of Usage

While Synermix® 5005 can be used as the sole drier, optimum results are achieved in combination with calcium and zirconium. Suggested starting point levels based on % by weight of vehicle solids is:

0.50 – 0.70 % DAPRO® 5005 (as supplied)

0.10 – 0.30 % Zr (as metal)

0.05 – 0.10 % Ca (as metal)

Packaging

Synermix® 5005 is supplied in steel drums (390 Lbs / 177Kg) and pails (35 Lbs/15.9 Kg).

Shelf Life

Synermix® 5005 dryer should be stored out of direct sunlight at temperatures between 40° F/5° C and 130° F/50° C.

When kept in an original unopened container, it will remain stable for 4 years from the date of manufacture.