



YT-G30 Polymeric Carbodiimide Crosslinker

OVERVIEW

YT-G30 is a polymeric carbodiimide crosslinker that reacts with the carboxyl groups in waterborne resins to form crosslinks, substantially improving the resin's cohesive strength, hydrolysis resistance and heat resistance. When added to waterborne coatings, it reacts slowly at room temperature, ensuring a workable open time; as the coated substrate is dried and the temperature rises, it rapidly crosslinks with the resin's carboxyl groups.

KEY SPECS

Appearance	Light yellow to light red transparent liquid	Solid content	50 ± 2%
Solvent	PMA	Viscosity	80 – 150 cps (25 °C)

KEY FEATURES

- ✓ Excellent water dispersibility with a suitable open time
- ✓ Provides lasting hydrolysis resistance for resins
- ✓ Significantly improves resin heat resistance
- ✓ Improves scratch and abrasion resistance of resins

APPLICATIONS

- ✓ Can replace polymeric aziridine crosslinkers — non-sensitizing
- ✓ Better yellowing resistance than aziridine crosslinkers
- ✓ Does not cause excessive viscosity change in waterborne resins

APPLICATION NOTES

Add according to performance requirements, typically 1–5%; add while stirring. For resin systems without co-solvents or low-viscosity systems, add under high-speed stirring, or pre-dilute with a co-solvent such as PMA or BCS before adding. At low ambient temperatures the product's viscosity increases; pre-heat to above 15 °C or dilute with a co-solvent before use.

STORAGE

Store at 5–30 °C in the original sealed packaging, in a cool, ventilated, dry place.
Avoid freezing, high temperature and direct sunlight. Shelf life: 6 months. Packaging
20 kg / 25 kg plastic drum, 180 kg iron drum