Technical Datasheet

Tinuvin® 249

	hindered amine light stabilizer (HALS)
general	Tinuvin® 249 is a liquid non-basic HALS for coatings. It is designed to meet the high performance and durability requirements of all solvent-based automotive, industrial and decorative coatings where other HALS fail either related to their basicity or for compatibility reasons.
key benefits	• non-basic HALS • low viscosity, solvent-free • does not interact with acidic paint ingredients such as catalysts, biocides or pigments • high thermal stability, excellent color stability during shelf life • broad compatibility in solvent-based systems of different polarity, non-exuding • good long-term performance
chemical nature	piperidine derivative
CAS number	proprietary

Properties

physical form	slightly yellowish liquid
storage	When kept in original unopened containers and at temperatures of 5 - 35 °C (41 - 95 °F), Tinuvin® 249 can be stored for up to 18 months from the date of manufacture.
miscibility	readily miscible with most common organic solvents, immiscible with water

Application

Tinuvin® 249 is designed for coatings where traditional HALS fail either related to their basicity (e.g. acid/base interactions) or for compatibility reasons (e.g. exudation)

fields of application

- Automotive OEM and Refinish coatings
- Industrial coatings
- Coil coatings
- Decorative coatings

For clear-coat applications, Tinuvin® 249 needs to be combined with a UV absorber (UVA) such as Tinuvin® 400 or Tinuvin® 384-2 (automotive finishes) or Tinuvin® 1130 (industrial finishes) or Tinuvin® 99-2 (decorative finishes)

binders

- acid catalyzed thermosetting (acrylic/melamine, PES/melamine…)
- epoxy/carboxy (amine and/or metal catalyzed)
- 2p-PU (polyol/polyester/isocyanate)
- alkyd/acrylic oxidative curing coatings

recommended concentrations

The concentration of Tinuvin® 249 needed depends on the level of pigmentation of the coating. The amount required for optimum performance should be determined in trials covering a concentration range.

coating type	by weight on binder solids
clear coats	1%
semi-transparent	1 – 2 %
opaque / solid shade	2 – 4 %

Safety
When handling this product please comply with the advice and information given in the safety data sheet and observe protective and workplace hygiene measures adequate for handling chemicals.

BASF SE
Pigments & Resins Europe
67056 Ludwigshafen, Germany
www.basf.com/resins
service-edc@basf.com