

# 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.

#### Note

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