

Tinuvin[®] 249

Product Description	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 Features & Benefits	<ul style="list-style-type: none">- non-basic HALS- low viscosity, solvent-free- does not interact with acidic paint ingredients such as catalyst, 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 Structure	piperidine derivative

Properties

Typical Properties	CAS No:	proprietary
	Appearance	slightly yellow liquid
	Miscibility	readily miscible with most common organic solvents, immiscible with water

These typical values should not be interpreted as specifications.

Applications

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 include:

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

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 laboratory trials covering a concentration range.

<u>Coating type</u>	<u>by weight on binder solids</u>
Clear coats	1%
Semi-transparent	1 – 2%
Opaque / solid shade	2 – 4%

(concentrations are based on weight percent binder solids)

Safety

General

The usual safety precautions when handling chemicals must be observed. These include the measure described in Federal, State and Local health and safety regulations, thorough ventilation of the workplace, good skin care, and wearing of protective goggles.

Safety Data Sheet

All safety information is provided in the Safety Data Sheet for Tinuvin 249.

Storage

Please refer to the “Handling and Storage of Polymer Dispersions” brochure.

Important

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