Industrial Coatings

Technical Data Sheet

Tinuvin[®] 5100



These typical values should not be interpreted as specifications.

Applications

Tinuvin[®] 5100 inhibits the photo-oxidation of binders to improve the resistance of coatings to surface erosion (retarding loss of gloss and chalking in pigmented coatings, avoiding cracking and loss of gloss in clear coatings). It helps maintain properties such as flexibility, adhesion and water repellency. Tinuvin[®] 5100 improves the durability of exterior industrial, architectural and decorative coating systems.

In clear coats and light pigmented formulations, synergistic protection against coating and substrate discoloration and degradation is obtained when Tinuvin[®] 5100 is associated with UV absorbers.

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We create chemistry

Tinuvin[®] 5100 is recommended for applications such as:

- General industrial coatings
- · Heavy duty maintenance and marine coatings
- Plastic coatings, gel coats and composites
- Architectural and decorative coatings
- · Wood coatings and treatments
- Waxes, polishes, car care products
- Coil coatings

Safety Data Sheet	All safety information is provided in the Safety Data Sheet Tinuvin [®] 5100.
General	The usual safety precautions when handling chemicals must be observed. These include the measures described in Federal, State and Local health and safety regulations, thorough ventilation of the workplace, good skin care and wearing of protective goggles.
	Safety
	(concentrations are based on weight % on resin solids)
	1 – 2% Tinuvin [®] 5100 + 1 to 3% Tinuvin [®] 99-2 or Tinuvin 1130 in clear coats over light sensitive substrates, or lightly pigmented coatings susceptible to fading or discoloration.
Recommended concentrations	1 – 3% Tinuvin [®] 5100 in pigmented systems
	The amount of Tinuvin [®] 5100 required for optimal performance should be determined in trial series covering a concentration range.
	 Radiation curable formulations containing acidic adhesion promoters
	 Wright resins (PVC plastisols, PVC copolymers, chlorinated resins) Two-pack, isocyanate-free systems (i.e. epoxy-carboxy based binders) Wood and architectural coatings
	 Acid catalyzed Aikyd and Polyester/Melanine resins Metal drier catalyzed long oil Alkyd and Alkyd/Acrylic systems Visylia rasing (DVC plasticely DVC construction ablering to drasing)
	Tinuvin [®] 5100 is recommended for paint systems based on:
	Tinuvin [®] 5100 eliminates cure retardation in oxidative drying alkyds in contrast to more basic HALS. In amine-catalyzed systems, Tinuvin [®] 5100 does not reduce pot life or create storage stability problems, as may basic HALS.
	Due to its low basicity, Tinuvin [®] 5100 does not interact with acidic paint components such as curing catalysts, metal driers, certain pigments and fillers, additives, or resins with high acid values or generating acids upon degradation such as vinylic or chlorinated resins. In general the compatibility with halogenated biocides used in wood stains and architectural coatings is not an issue but should be pre-tested.

Important

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