

Tinuvin® 5071

Product description

Tinuvin® 5071 is a VOC-free blend of UV absorber and HALS for coatings, printing and packaging, adhesives and sealant applications. It is designed to meet good performance and durability requirements of exterior solvent-based industrial, automotive refinish and architectural coatings.

Key benefits

- Lowest inherent color blend
- Good long-term performances combined with a higher photo-permanence than classical light stabilizer
- Fully preserves dry-film properties such as inherent color, transparency and gloss
- Does not affect other film properties such as water-sensitivity, blocking resistance, hardness and scratch resistance, does not react with other acidic paint components
- Stir-in product: mixes easily in broad spectrum of solvent-based systems without applying high shear forces, disperses homogeneously without addition of co-solvents or any other dispersing aids
- No CMR2 label (H361f), no H317, no H400, no H410, no WGK3

Chemical nature

Blend of UV absorber and HALS

Properties

Physical form

Very light colored liquid

Technical data

(not supply specification)

| | | |
|-------------------|--|------------------------|
| Active content | | ~ 100 % |
| Dynamic viscosity | DIN 53019 100 s ⁻¹ , 20 °C | ~ 3 Pa.s |
| Density | DIN 51757 20 °C | 1.03 g/cm ³ |

Application

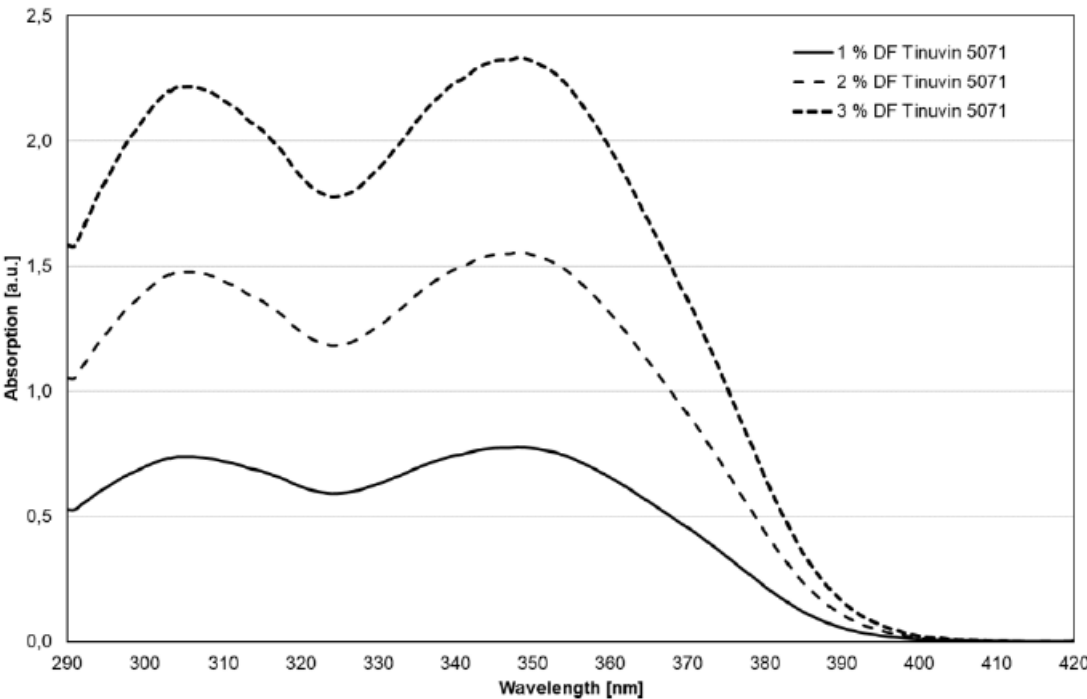
- Tinuvin® 5071 is suitable in all solvent-based formulations and is miscible with most organic solvents
- Transportation and refinish coatings
- General industrial paints
- Architectural coatings
- Wood stains and varnishes, wood-care products
- Heavy duty maintenance and marine coatings
- Adhesives and sealants
- 1K and 2K PUR (acrylic/NCO, PES/NCO,...)
- Thermoplastic systems (acrylic, vinylic,...)

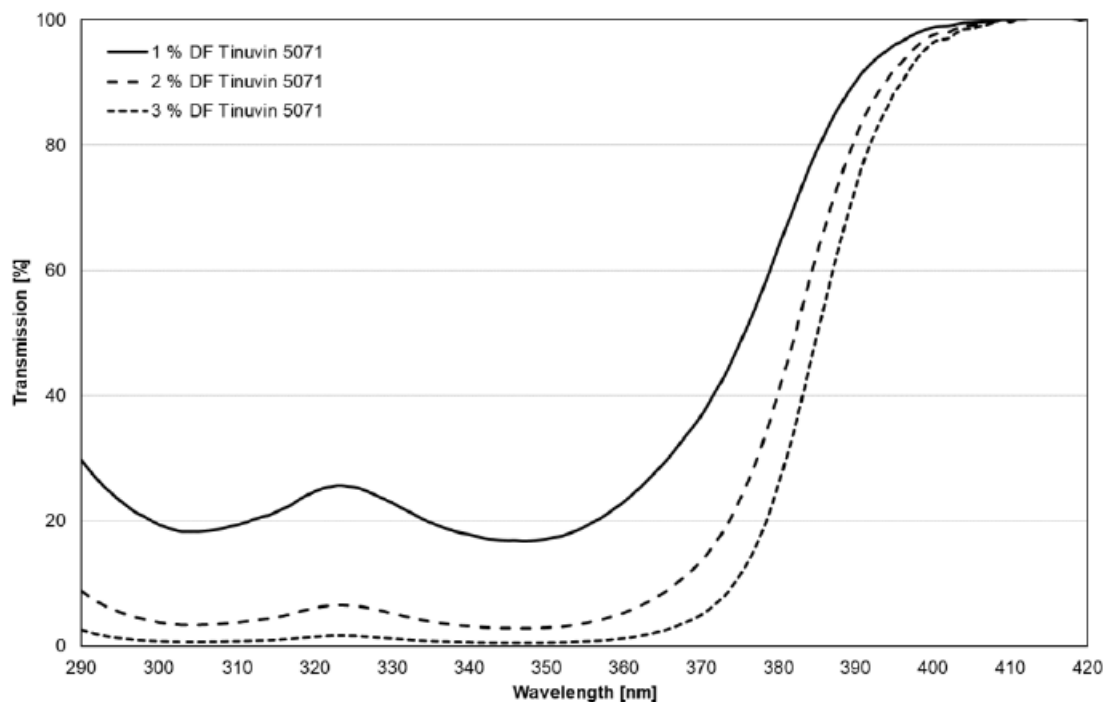
Formulation guideline

The concentration of Tinuvin® 5071 depends on the dry-film thickness and on the desired protection. The amount required for optimum performance should be determined in trials covering a concentration range

| Dry-film thickness | Addition of Tinuvin® 5071 |
|--------------------|---|
| [µm]: | [% active on total binder solid content]: |
| 40 | 1.0 – 3.0 |
| 60 | 0.5 – 2.0 |

The theoretical concentration in an applied 40 µm clear coat was calculated as a function of the concentration in toluene with the help of the Lambert-Beer law. Spectra were recorded in toluene with a light path of 1 cm (DF = delivery form).





Storage

When kept in original un-opened containers and at a temperature between +5 °C and +35 °C, Tinuvin® 5071 can be stored up to 36 months from date of manufacture

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

The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights, etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. The agreed contractual quality of the product results exclusively from the statements made in the product specification. It is the responsibility of the recipient of our product to ensure that any proprietary rights and existing laws and legislation are observed.

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Resins & Additives (Europe)
67056 Ludwigshafen, Germany
www.basf.com/resins