

Industrial Coatings

Technical Data Sheet

Lignostab® 1198



Product Description

Lignostab® 1198 is a photo-stabilizer developed specifically for wood pretreatments. It is highly effective for the color stabilization of natural and tinted or stained wood and for the durability improvement of wood substrates coated with clear and transparent pigmented finishes.

Key Features & Benefits

- Minimal yellowing and darkening
- Easy to blend with other light stabilizers and UV absorbers

Properties

Typical Properties

Appearance	orange solid flakes
Density at 20°C	1.03 g/cm ³
Solubility at 20°C (g/100g solution)	Soluble in water and all common polar solvents such as alcohols, glycol ethers, and acetates.

Applications

Lignostab® 1198 can be used to prevent natural, light-shade wood substrates from yellowing and darkening when exposed to diffused or direct sunlight. It protects wood by inhibiting the photo-oxidation of lignin and acts by simple aqueous pretreatment of the substrate. For tinted wood, it can be used directly within aqueous or hydro-alcoholic tinting solutions or stains.

Synergistic and durable protection effects against wood discoloration and degradation are obtained when it is associated with a UV absorber. The latter can be used in the pretreatment or stain itself or preferably in a subsequently applied topcoat. With this photo-protection concept, attained wood color stabilities and improved coating durability can be achieved. The protection degree may depend on the wood species and for tinted wood on the type and saturation of the colorant.

Applications that can benefit from Lignostab® 1198 include indoor parquetry and furniture as well as outdoor wood and timber work (doors, windows, cladding, paneling, fencing, decking, shingles, beams, etc.)

Lignostab® 1198 is recommended for applications such as:

- Clear wood fillers and sealers (except UV curable systems)
- Industrial and DIY wood stains and tinting solutions
- Exterior wood stains (transparent pigmented)
- Industrial wood preservative treatments
- Sap-stain protectants, wood preservers, and waterproofers
- Penetrating clear and pigmented finishes (i.e. deck coatings)
- Wood care products, waxes, and polishes

Processing

It should be noted that cure retardation of UV curable systems and oxidative drying Alkyd coatings may occur when such coatings are directly applied on wood treated with Lignostab® 1198. The use of a sealer helps to avoid its migration and overcomes this problem. It is recommended to check the stability of Lignostab® 1198 in stains and its compatibility with biocides used in wood preservative treatments by careful preliminary testing.

Clear coats formulated with Lignostab® 1198 that are applied on pretreated substrates have improved life times. It is highly recommended that Lignostab® 1198 be used in combination with UV absorbers. For aqueous primers, the UV absorber should be water dispersible or water soluble such as Tinuvin® 1130. For top coats, Tinuvin® 99-2 or Tinuvin® 5060 may be used in Alkyd and polyurethane solventborne systems and Tinuvin® 1130 or Tinuvin® 5151 in waterborne systems.

Recommended Concentrations 1 – 3% in aqueous primers (concentrations based on weight % of total formulation)
- eventually in combination with 1 – 3% Tinuvin® 1130 (if no topcoat is applied) in water/co-solvent treatment solutions or stains or in dilute acrylic resin dispersions

UV Absorbers or UVA/HALS blends in topcoats Indoor applications: 1 – 2% Tinuvin® 99-2 in solventborne topcoats or 1 – 3% Tinuvin® 1130 in waterborne systems
Exterior applications: 1 – 2% Tinuvin® 5060 in solventborne alkyd topcoats or 1 – 3% Tinuvin® 5151 in waterborne acrylic systems

Safety

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 Data Sheet All safety information is provided in the Safety Data Sheet for Lignostab® 1198.

Important

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