

Ciba Specialty Chemicals



# ***Ciba® LIGNOSTAB™ 1198*** ***Wood Photostabilizing Additive***

*A New Concept for the Photoprotection of Wood*



Coating Effects

Value beyond chemistry

# **Ciba® LIGNOSTAB™ 1198 – Wood Photostabilizing Additive**

## ***A New Concept for the Photoprotection of Wood***

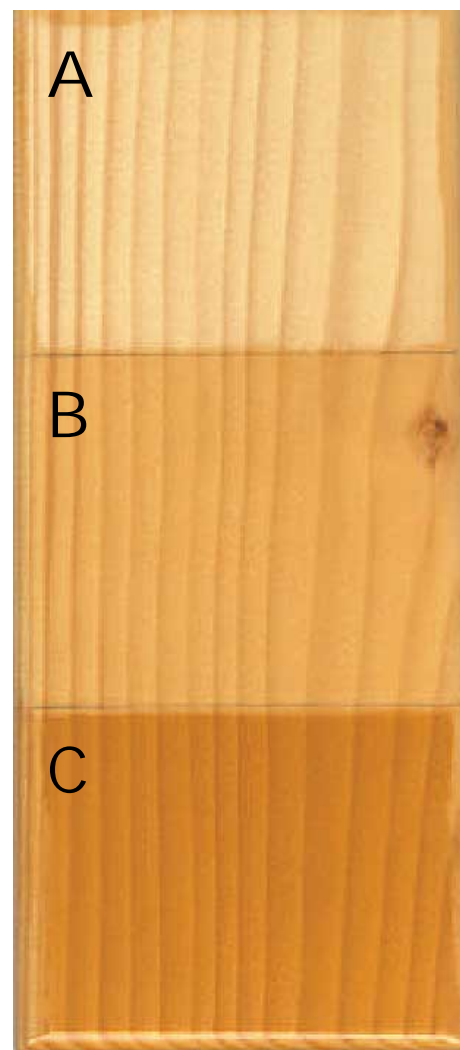
Wood is an integral part of our everyday life in our houses, offices, public buildings and exterior environments. Whatever style, simple natural pine, rustic oak and cherry, noble teak and mahogany, modern fashionable colors or even untreated, wood provides a warm character and pleasant atmosphere. No doubt that such features want to be kept for the longest possible times.

### ***Discoloration and degradation of wood is prevented***

As a global and leading supplier of colorants and light stabilizers for wood coatings, Ciba Specialty Chemicals has been helping to improve wood coatings coloration, performance and durability since years. The use of Ciba® TINUVIN® UV absorbers and HALS (Hindered-Amine Light Stabilizers) prevents the premature failure of exterior varnishes and stains and protects wood surfaces from graying and degradation due to intense UV light exposure. Even in diffuse light conditions of indoor applications, wood yellowing and darkening is strongly reduced by the use of UV absorbers. Most of these degradation effects are due to the photooxidation of lignin, a light-sensitive component present in all wood species.

Ciba® LIGNOSTAB™ 1198 has been developed specially to address these problems. It effectively stops lignin photooxidation and reduces degradation of wood surfaces caused by UV light. Clear coatings applied on substrates pretreated with it, therefore resist better and have prolonged lifetimes. Enhanced protection effects are obtained when UV absorbers are used additionally in top coats.

Ciba® LIGNOSTAB™ 1198 prevents pale shade wood substrates from darkening and yellowing when exposed to direct or diffuse sunlight. It also stabilizes the color of tinted or stained wood, preventing its fading without reducing transparency and brightness. It allows the inherent qualities and esthetics of grain patterns, colors and textures of coated wood to be maintained and protected for their entire lifetimes.



The picture illustrates the new Ciba® LIGNOSTAB™ 1198 photoprotection concept on a natural pine substrate top-coated with an alkyd varnish. Section C has no UV absorber in the top coat and no pretreatment and discolors strongly. Section B has only an UV absorber in the top coat while section A with LIGNOSTAB™ 1198 pretreatment and UV absorber shows the far best wood color protection.

Total exposure: 1,500 h UV A 340 light

## Features

- unique lignin photooxidation inhibitor
- water-soluble HALS
- easy wood pretreatment as dilute aqueous solution
- outstanding wood color protector
- synergistic protection effects with UV absorbers

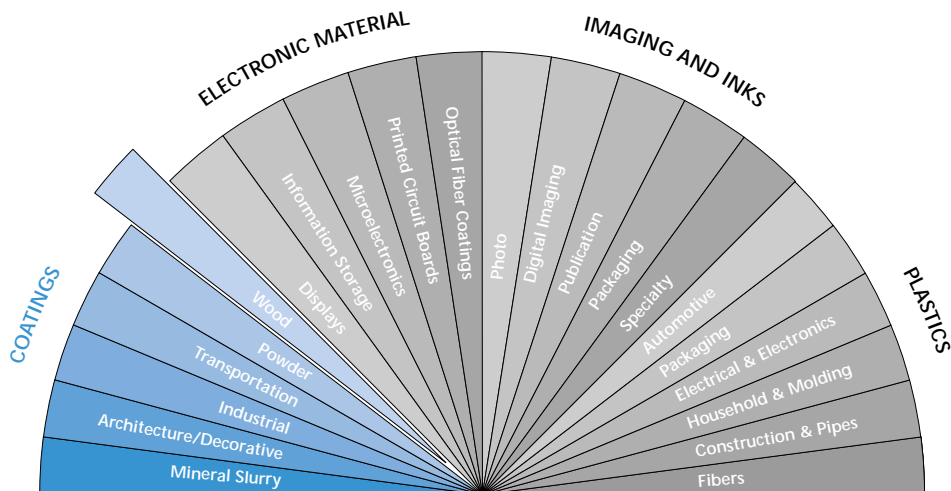
## Applications

- clear wood fillers and sealers (except UV-curable systems)
- industrial and DIY wood stains and tinting solutions
- exterior wood stains (transparent pigments)
- 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

## End uses

- indoor flooring and furniture
- exterior wood and timber: doors, windows, panelling, cladding, decking, fencing, shingles, beams, etc.

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Further information at website: <http://www.cibasc.com/coatingeffects>

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