SONGSORB® CS 477

Red-shifted hydroxy-phenyl triazine UV-absorber

- High-performance liquid UV-absorber with absorption maximum in the UVA-region.
- Convenient liquid form for easy processing and use.
- Suitable for solvent-based, solvent-less and UV-cure coating systems.
- Combination with other hydroxy-phenyl triazine UVA extends the absorption spectrum.
- Combination with hindered amine light stabilizers (HALS) maximizes synergistic protection effects

It's all about **the chemistry**™

SONGWON's UV-absorber and light stabilizer portfolio enables the industry to meet todays and tomorrow's performance, and efficiency demands.

UV-absorbers absorb energy rich UV radiation (250–400 nm) and quickly transforms it into harmless heat. The hydroxy-phenyl triazine UVA-chemistry is generally recognized as high-performing platform for exceptional durability and photo permanence. Combining UVA with different absorption characteristics broadens their application spectrum and opens the door to multiple use areas.

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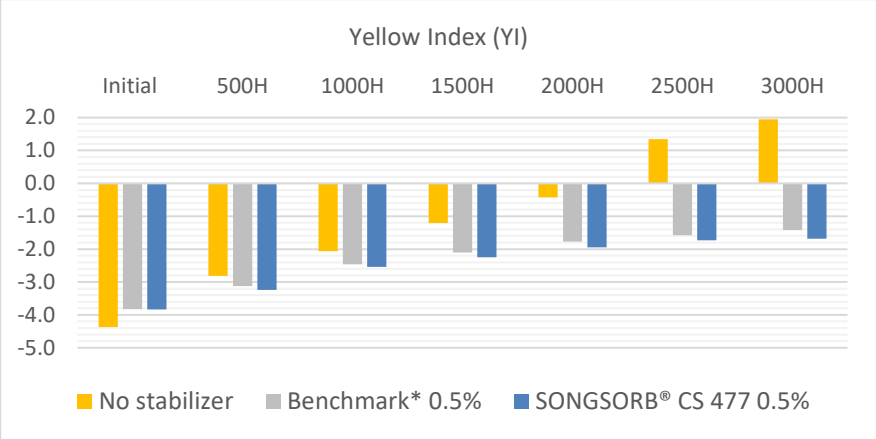
SONGSORB® CS 477 and its combination with other UVA

SONGSORB® CS 477 meets typical industry standard performance requirements. SONGSORB® CS 477 is suitable for solvent-borne, solventless and UV-cure coatings systems used in industrial and automotive applications as well as for overprint UV-blocking varnishes (OVP). Incorporation into pressure sensitive adhesives layers provides UV- and light blocking properties to window films in automotive and construction applications.

Initial Yellow Index (YI) and yellowing in artificial-weathering test ASTM G155, Cycle 1:

Artificial weathering procedure:
- Atlas Ci4000
- ASTM G155, Cycle 1
- Black panel temperature: 63°C
- Irradiation: 0.35 W/m² (340nm)
- Weathering cycle:
  - 102 minutes irradiation
  - 18 minutes water spray



SONGSORB® CS 477 does not impair the high-gloss characteristics of the coating:

Test system:
solvent-based aliphatic 2K polyurethane clear coat on white-painted aluminum panel

Additive add-on:
*Existing commercial material
0.5% resp. 1.0% on dry solids

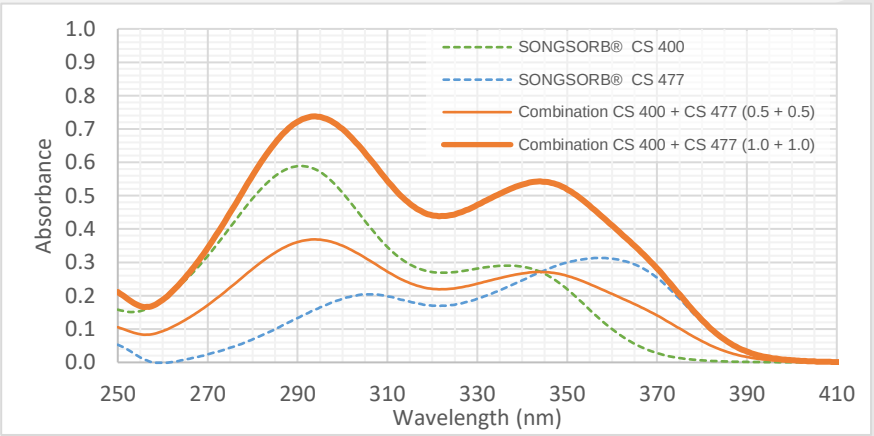
Broadening of UV-absorption with equal amounts SONGSORB® CS 477 and CS 400:

Base concentration:
0.001% in Trichloromethane

SONGSORB® CS 477
min. 78% active UVA

SONGSORB® CS 400
min. 83% active UVA

Consult our technical datasheet (TDS) for further information



03/2025

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