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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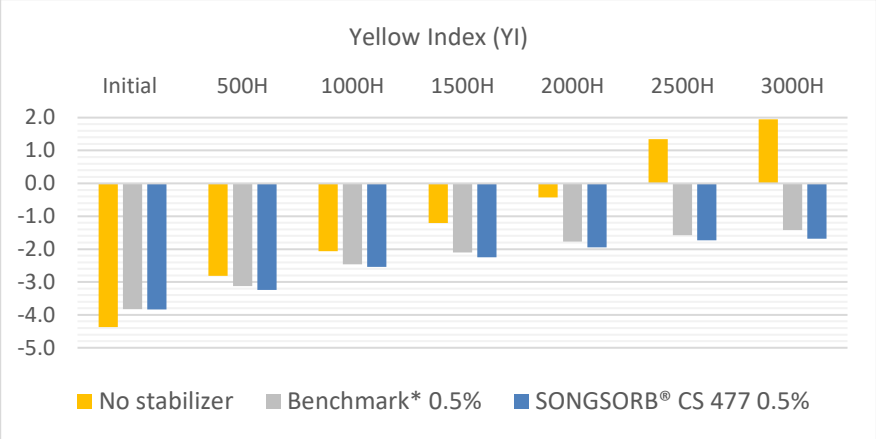
SONGSORB® CS 477 and its combination with other UVA

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

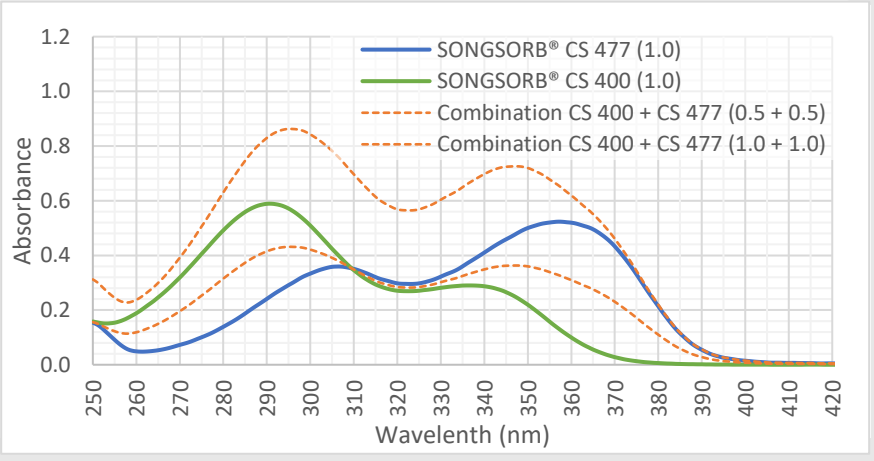
Broadening of UV-absorption with equal amounts SONGSORB® CS 477 and CS 400:

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



SONGWON provides customers with warranties and representations as to the chemical or technical specifications, compositions and/or the suitability for use for any particular purpose exclusively in individual written agreements.

The facts and figures contained herein have been carefully compiled to the best of SONGWON's knowledge but are essentially intended for informational purposes only.

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