

SPECIALTY CHEMICALS

EVERSORB 83

light stabilizer for coatings applications

Introduction:

EVERSORB 83 is a liquid high performance UV light stabilizer blend with very high thermal stability and permanence for coatings. It suitable for coatings exposed to high bake temperatures and extreme environmental conditions, the product is miscible with all common solvents but also easily incorporated into water borne systems.

EVERSORB 83 is a versatile light stabilizer, which can be used in a wide variety of clear and pigmented coating system. It particularly recommended for industrial, automotive, wood, plastics and urethane coatings.

Appearance:

Amber to yellowish liquid

Dynamic Viscosity at 20°C:

1500-2400 mPa.s

Density at 20°C:

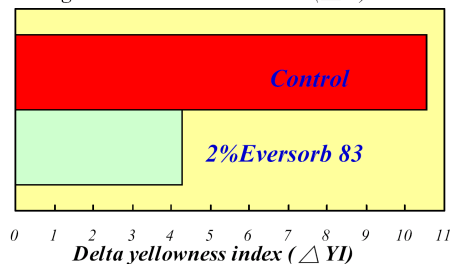
1.06 g/cm³

Advantages

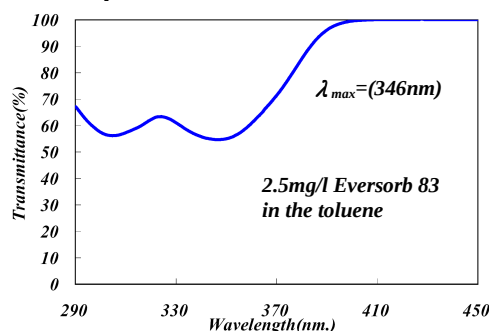
- Readily soluble in a wide range of polar and non-polar organic solvents.
- Easily emulsified in water.

Experiments:

Resin: Polyurethane (PU) Clear Coating
Preparations: Air dry for 6 hours
Exposure Unit: Q-U-V with UVB-313 light ball
Test Methods: ASTM G154
Dosage: 2% Solid content

Fig.1-1 Delta Yellowness Index(ΔYI)**Solubility at 25°C (g/100g solvent)**

Butylcarbitol : >50
Butyl acetate : >50
Xylene : >50
1-Methoxy-2-propylacetate : >50
MEK : >50
Water : < 0.1

UV-Vis. Spectrum**Handling & Safety:**

Personal equipment for protection is recommended. Excess exposure to the product should be avoided. Wash thoroughly after handling.

Storage:

EVERSORB 83 should be kept in a dry, dark place without any light exposure.

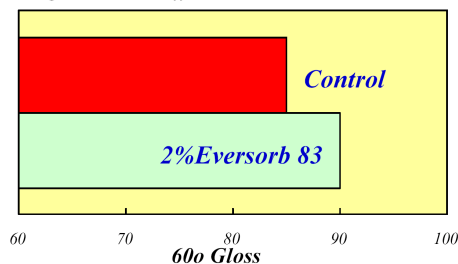
Application: Spray

Film Thickness: 90 microns (wet); 25 microns (dry)

Exposure Time: 1000 hours

Gloss Retention and Yellowness Index: ASTM G154

Fig.1-2 Gloss Difference



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