

# Eversorb<sup>®</sup> AQ3

## UV absorber for waterborne coating applications

---

### Introduction

Eversorb<sup>®</sup> AQ3 is a liquid type and high performance UV absorber for waterborne coatings. It is suitable for coatings under high baking temperature and extreme conditions. The product is able to use with water borne systems directly.

Eversorb<sup>®</sup> AQ3 is a versatile UV absorber, which can be used in wide varieties of clear waterborne coating system. It is recommended for industrial, automotive, wood, plastics and building coatings particularly.

---

### Physical Properties

#### Appearance

Amber to yellowish liquid

#### Solubility at 25°C (g/100g solvent)

Butylcarbitol : >50

Butyl acetate : >50

Xylene : >50

1-Methoxy-2-propylacetate : >50

MEK : >50

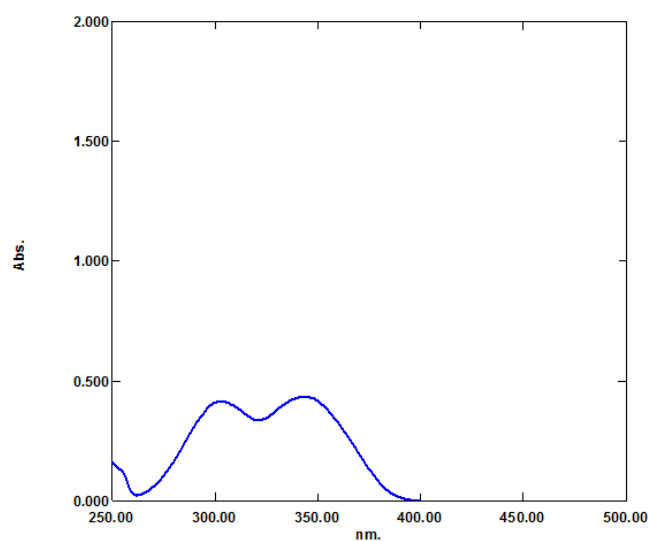
Water : < 20

#### Dynamic Viscosity at 20°C

6000-7000 mPa.s

## UV-Vis. Spectrum

$\lambda_{\text{max.}} = 343\text{nm} \ \& \ 302\text{nm}$  (20ppm in THF)



## Advantages

- Easily handling
- Improve gloss retention
- Excellent color retention
- Improve coating durability

## Experiments

Resin: Polyurethane (PU) Waterborne Clear Coating

Application: Spray Preparations: Air dry for 6 hours

Film Thickness: 85 microns (wet); 35 microns (dry)

Exposure Unit: Q-U-V with UVB-313 light bulb

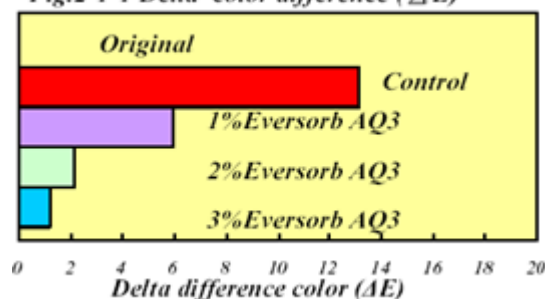
Test Methods: ASTM G154

Gloss Retention and Yellowness Index: ASTM G 154

Exposure Time: 1000 hours

Dosage: 1~3% Solid content

*Fig.2-1-1 Delta color difference ( $\Delta E$ )*



Better Chemistry Better Life

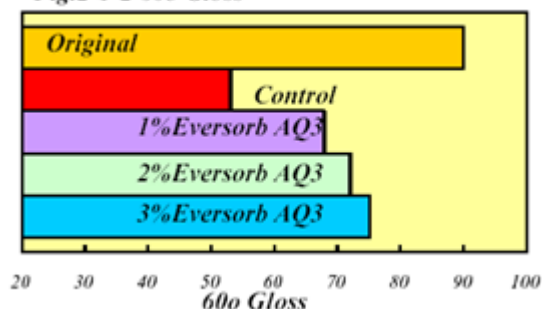
6F, No.77, Sec. 2, DunHua S. Rd., Taipei 106, Taiwan

Tel: +886-2-2706-6006 Fax: +886-2-2326-3599

E: sales-uva@ecic.com.tw [www.everlight-uva.com](http://www.everlight-uva.com)

  
**Everlight  
Chemical**

Fig.2-1-2 60o Gloss



---

### Handling & Safety

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

---

### Storage Conditions

Eversorb® AQ3 should be kept in a dry, dark place without any light exposure.

---

The data presented in this leaflet are in accordance with the present state of our knowledge, but do not absolve the user from carefully checking all supplies immediately on receipt. We reserve the right to alter product constants within the scope of technical progress or new developments. The recommendations do not absolve the user from the obligation of investigating the possibility of infringement of third parties' rights and, if necessary, clarifying the position. Recommendations for use do not constitute a warranty, either express or implied, of the fitness or suitability of the products for a particular purpose. Seller makes no representation or warranty to express or implied including of merchantability or fitness for particular purpose.

Better Chemistry Better Life