ADA1175—UV-Absorber

Description

ADA1160 is a liquid UV absorber of the hydroxyphenylbenzotriazole class specifically developed for coatings. The product is miscible with all common solvents but also easily incorporated into water borne systems. In view of the high durability demands, its high temperature and extraction resistance makes it especially suitable for industrial and automotive coatings. Because of its broad UV absorption, ADA1175 also provides protection to light sensitive substrates.

Chemical Structure

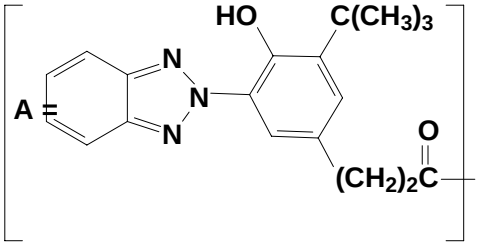
$R(OCH_2CH_2)_{6-7}OR'$

Mixture:

50% R = A, R' = H

38% R = A, R' = A

12% R = H, R' = H



Product Properties

Chemical Name:
Molecular weight: 637 (monomer), 975 (dimer)
Appearance: Yellow to light amber viscous liquid
Viscosity @ 20 °C: 1.17 g/cm^3

Miscibility @ 20 oC

Solvent	Ratio (g/100g solution)
Butylcarbitol	> 50
Butanol	> 50
Butylacetate	> 50
Ethylglycol	> 50
1-methoxypropylacetate-2	> 50
Methylethylketone	> 50
Xylene	> 50
Water	Immiscible
Hexanedioldiacrylate	> 50
Trimethylolpropanetriacrylate	> 50

Application Suggestions

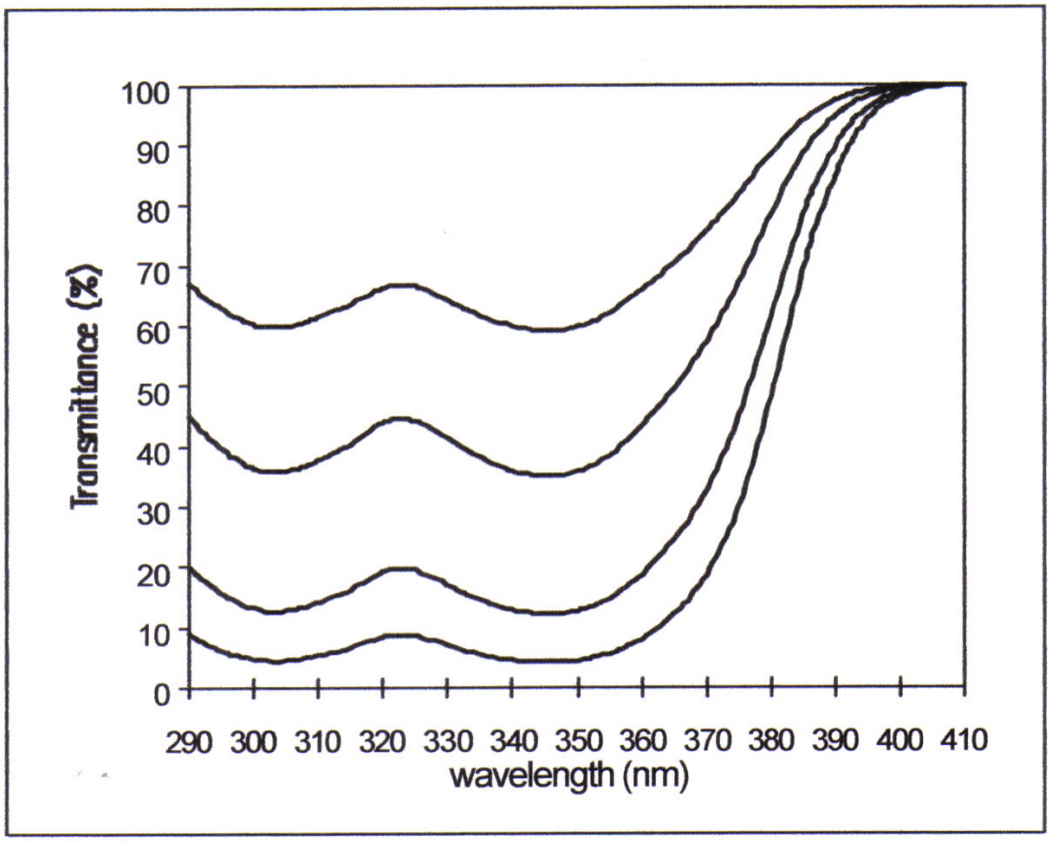
ADA1175 is recommended for coating applications in both water born systems and solvent based systems. This product may be used in combination with a light stabilizer of the sterically hindered amine or aminoether class (HALS) such as recommended below. These combinations give coatings superior protection against glass reduction, cracking, blistering, delamination and color change. Based on experience, the optimum protection is achieved by adding the light stabilizer to the top coat. ADA1175 is only recommended for ambient and low temperature cured systems, i.e. air drying alkyd based systems.

Recommended concentrations

1-3 %	ADA1175
+ 0.5-25	If using with other with other light stabilizers.

****Amount required for optimum performance should be determined in trials covering a concentration range.****

Spectrum



Top line: **0.001% ADA1175, corresponds to 0.25% in a 40 µm film.**
Second line: **0.002% ADA1175, corresponds to 0.50% in a 40 µm film.**
Third line: **0.004% ADA1175, corresponds to 1.0% in a 40 µm film.**
Bottom line: **0.006% ADA1175, corresponds to 1.5% in a 40 µm film.**

All applications using this product should be thoroughly tested prior to approval for production.