

Introduction

Chiguard® 9735 is a liquid UV absorber blend designed specifically for epoxy flooring. It is used to protect epoxy, especially bisphenol A-based products, from yellowing upon exposure to UV.

Chiguard® 9735 is more solvent soluble, has better resin compatibility, releases less volatile, and provides a degree of stabilization that is significantly better than other UV absorbers based on benzotriazole or benzophenone which are commercially available in the market.

Properties

Active Ingredients

UV absorber and light stabilizer

Physical Data

Odor	: Odorless
Boiling Point	: 340-350 °C
Solubility in water	: Practically insoluble
Density	: 0.96 g/cm ³ @20 °C
Viscosity	: 1100 cps @20 °C

Specification

Appearance	: Pale yellow liquid
Assay	: 97.0% min. (Active ingredient)
Volatiles	: 0.5% max.
Clarity of solution	: Clear solution
Color (Gardner)	: 10 max.
Transmittance	: 95% min. @450nm

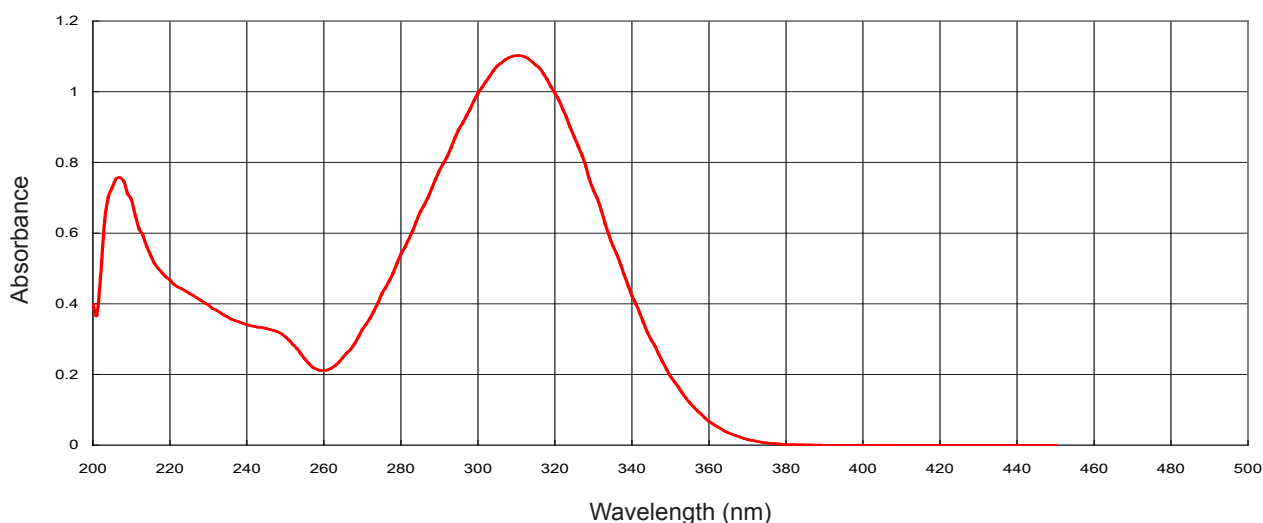
Solubility (g in 100ml solvent @ 20 °C)

Butanol	: > 50
Butyl acetate	: > 50
Ethyl glycol	: > 50
MEK	: > 50
Styrene	: > 50
TMPTA	: > 50
Water	: Nil

Packaging

25 kg Plastic drum

UV Spectrum



Performance Data

Application to poured epoxy flooring:

Epoxy flooring is tested in accordance to ASTM G155 (Standard Practice for Operating Xenon Arc Light Apparatus for Exposure of Non- Metallic Materials) after curing. Control is 100% epoxy resin and Chiguard® 9735 is added to the system in amount of 4%.

After being exposed to UV light for 500 hrs, a significant protection from UV is delivered by Chiguard® 9735 as shown on the right.

