

Introduction

Chiguard® W-5481 (W-5481) is a highly effective waterborne UV stabilizer for wood coatings. It can achieve a better color protection with a lower dosage. Lignin is sensitive to UV and turns yellow rapidly, while W-5481 shows a robust performance window after several different test environments. W-5481 also shows excellent long-term performance in stabilizing the discoloration of wood substrates with only half the dosage of commercial UV stabilizers.

Key features and benefits

1. Extremely low emulsion agent content to lessen the foaming issues.
2. Instantly miscible with waterborne resins.
3. Free of solvents or coalescing agents.
4. Does not affect the flowability of the resulting coatings.

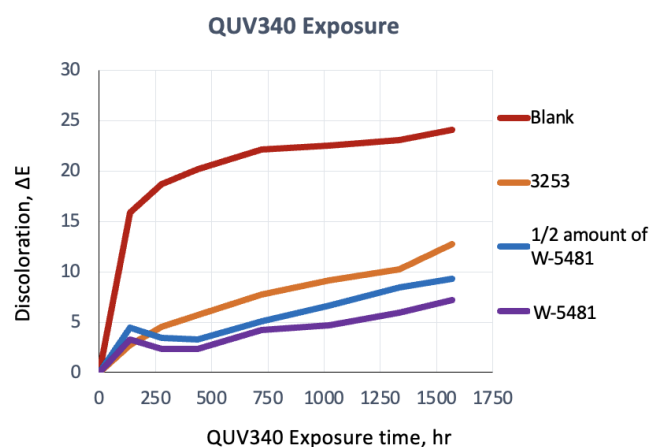
Composition

Active ingredients : UV absorbers and Light stabilizers

Physical Data

pH	: 6~8
Viscosity	: 30 cps max.
Solid Content	: 31~34 %
Active content	: 29~31 %
Appearance	: Pale pink milky emulsion
Particle	: < 500 nm
Density	: 1.003 g/cm ³

Application data of Wood Coatings



Experiment conditions:

1. Substrate: southern pine
2. UVA/HALS= 2/1, total active content= 1.5%,
3. Resin: waterborne acrylate, 27.5 um/ layer x 4
4. Aging test: QUV340nm
5. 3253= Chiguard® 5530/ Chiguard® 353= 2/1

Storage

Shelf life is 6 months from the date of manufacture if stored at ambient temperature and the seal remains intact. Once open, make sure the cap is tightly close to prevent the evaporation of water. A storage temperature below 10°C or above 40°C must be avoided because this will have a detrimental effect on the quality of the product. Should separation occur due to prolonged storage, contact the company for assistance.

Packaging

20 kg plastic drum