

Chiguard® W-5481

Highly Effective Waterborne UV stabilizer for woods

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

Extremely low emulsion agent content to lessen the foaming issues.

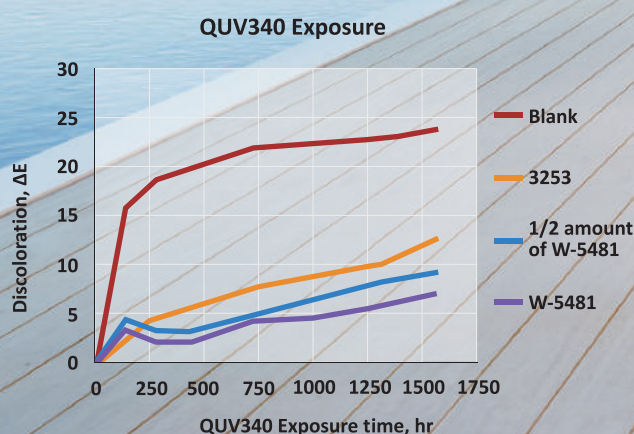
2. Instantly miscible with waterborne resins.
3. Free of solvents or coalescing agents.
4. Does not affect the flowability of the resulting coatings.

Composition

Active ingredients : UV absorbers and Light stabilizers

Application Data of Wood Coatings

◆ Excellent Long-lasting Discoloration Control Performance



Experiment conditions:

Substrate: southern pine

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

Physical data

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

Strengths of Chiguard® W-5481

- ◆ Stir-in property
- ◆ VOC-free
- ◆ Long-lasting performance

Recommended Applications

- ◆ Outdoor Waterborne wood coatings